

JEAN ZHENG—THE TECH
Community members, MIT students, and faculty team up to compete in building the tallest balloon tower during the IDEAS team-building dinner Wednesday night.

Four-Week Janitorial Strike Ends

By Brian Loux
NEWS EDITOR

An agreement late Wednesday night ended the four-week strike by Boston janitors, effectively canceling plans for city-wide acts of civil disobedience planned for yesterday. MIT students expected to join with around 2,000 striking workers and other community members to push for higher wages and health care coverage for part-time janitors.

Co-coordinator for MIT's student campaign for janitors Shefali B. Oza '04 called the resolution a "great victory."

Service Employees International Union spokesperson Sylvia Panfil said the agreement guarantees part-time workers "two sick days, employer-paid health coverage, English classes for immigrant workers to be managed by the union, and higher wages."

The strike began in late September when the SEIU Local 254 and the contracting companies UNICCO and Janitronics could not resolve issues over health care for part-time employees and other issues. Employees of MIT-owned University Park and Technology Square developments, employed by UNIC-

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Card Counting Gig Nets Students Millions

By Jenny Zhang
STAFF REPORTER

Ben Mezrich, the author of *Bringing Down the House: The Inside Story of Six M.I.T. Students Who Took Vegas for Millions*, discussed his newest book and held a book signing at Coffeehouse last night. He described his interaction with this covert team of gamblers.

Over a few years in the 1990s, MIT students earned several million dollars by playing blackjack in Las Vegas casinos on weekends while taking on the lives of normal college students during the week.

"I got to know them socially when we were in college. They always had cash, and were always going to Vegas. Eventually, they took me along and I got an inside look," said Mezrich.

The basic strategy for the students was to employ card counting techniques, where they kept track of the proportion of high cards to the total number of cards left in the stack. "Based on that, they could predict hands and place bets accordingly," said Mezrich.

Teamwork pays off big

Card counters are normally caught because they work alone and appear suspicious when they suddenly raise their bets once they predict a win.

Blackjack, Page 14

Interfraternity Council Fills Vacant Positions

By Jennifer L. Wong
STAFF REPORTER

The Interfraternity Council elected officers to its remaining vacant positions during a President's Council meeting Wednesday evening. The Committee on Risk Management was also asked to take on new duties in response to the treatment of alcohol violations of four fraternities that resulted in the resignation of former president Andrew T. Yue '03.

Officials were elected by show of hands and required a simple majority for victory. The new interim IFC Vice President is Paul J. Sierra '05 of Theta Delta Chi and the interim Judicial Committee Chair is David B. Gottlieb '05 of Delta Tau Delta.

John J. Huss '05 of Pi Lambda Phi was named the 2002-2003 Recruitment Chair, replacing current chair Joshua S. Yardley '04. The Recruitment Chair election is regularly held in October.

Interim officers will be replaced by the winners of the regular elections in December.

IFC decides to rethink policies

IFC President Amado G. Dehoyos '04, who replaced Yue, said the Committee on Risk Management has been formed in response to the handling of alcohol

violations by the IFC and the Student Life Office.

The IFC's Risk Management Committee is headed by Lawrence G. Colagiovanni '04 of Kappa Sigma. His committee will be looking at the existing IFC policies regarding violations and punishment and will attempt to reevaluate and restructure them.

Dehoyos said that the IFC welcomes "new input from the community to see what they want" and will move forward from the current situation "by evaluating those suggestions."

"The system has strong leadership and we will continue to faithfully represent the system," he said.

IFC seeks to improve community

The major initiatives for Dehoyos and the entire IFC this year are to improve communication and build a better and stronger sense of community among all fraternities.

Colagiovanni said the "IFC should serve as a resource for the houses. ... The IFC can bring houses together as long as we have the right relationship with them. ... [we must] make sure that they know we are there to help and not hurt them."

Colagiovanni said his goal was

IFC, Page 17

Female Residents Accepted At TEP

By Beckett W. Sterner
STAFF REPORTER

Female boarders are now allowed to live at MIT's chapter of the Tau Epsilon Phi fraternity during the regular school year.

TEP decided to accept female boarders to help fill space in the house. While they will not be full members of the fraternity, the women will be allowed to live at the house for their entire four years or more at MIT.

Unofficially, women have been welcome at TEP for many years, but only recently have the brothers been interested in making the process an official one. The Xi chapter of TEP held extensive negotiations with the national fraternity to help get the idea approved.

So far this year, in addition to two male pledges, four women have agreed to live at TEP, three freshmen and one senior. The women are Tara R. Diduch '06, Jennifer H. Olejarczyk '06, Laura A. Hajj '06, and Julee Y. Hong '03.

Women considered 'boarders'

In order to make the acceptance of women boarders official, TEP had to make a fine distinction between the men and women living there. Where the new males are known as pledges, the females who are or will be living at TEP are called "boarders."

Because fraternities do not normally have women living in their houses during the school year, the Xi chapter of TEP had to negotiate with the national fraternity to officially allow female boarders.

TEP chancellor Jason T. Rolfe '03 said the "national [organization] is entirely aware of our situation ... they've said there would be no problem."

Frank Medwick, President of TEP's Alumni Association, said that currently the national organization "had no official comment," but that there are "issues that need to be resolved." He said that over the next few weeks, they "will be doing major investigations into the public perception" of letting women live in TEP.

TEP plans on maintaining membership in both the Interfraternity Council and the Living Group Council, even though the LGC seceded from the IFC this past weekend.

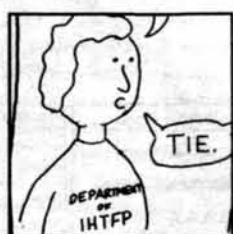
Boarders help fill empty spaces

Part of the goal of letting women live in TEP's house officially is "to help with the transition to the new rush system," according to Michael I. Mandel '04, TEP's rush chair.

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The Tech reminds you to set your clock back one hour on Sunday.



Comics

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NEWS

A new pilot program for Course VI will attempt to teach classes through a case-based system.

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WORLD & NATION

Annoyed By Coverage, Baghdad Expels Foreign Journalists

THE BALTIMORE SUN

Apparently angered by recent U.S. news reports on dissent, Iraqi officials told many foreign journalists Thursday, including staff members for CNN, ABC and NBC, that they must leave the country within days, according to executives at the networks.

Officials in Baghdad, the Iraqi capital, told reporters that non-Iraqi journalists for those networks must leave the country, although foreigners with other outlets would be allowed to stay until their visas expire.

NBC News' Ned Colt and his colleagues, a producer and camera operator, were given until Saturday to leave Iraq. "There was no reason given to us why they had to leave," said NBC News spokeswoman Allison Gollust.

The expulsions come against the backdrop of heightened tensions with the United States, which is threatening to depose Iraqi leader Saddam Hussein.

Amazon Still in the Red Despite 33 Percent Jump in Sales

LOS ANGELES TIMES

A 33 percent increase in third-quarter sales to \$851 million was not enough for electronic commerce pioneer Amazon.com Inc. to report a profit.

The Seattle-based online retailer said Thursday that it lost \$35 million, or 9 cents a share, in the three months that ended Sept. 30, compared with a loss of \$170 million, or 46 cents a share, last year.

The improvement in sales was chiefly due to price reductions, said Chief Executive Jeff Bezos, but it came at a cost.

"We are committed to lower prices for customers even though it's expensive for us," Bezos said during a conference call. The company is making up for lower prices by boosting sales volume and by holding the line on costs, he said.

During the quarter, the company also lowered the threshold for free shipping from \$49 per order to \$25. As a result, the company spent \$10 million on shipping in the third quarter compared with \$2 million a year ago.

Ads Boost Viacom's Quarterly Operating Income

NEWSDAY

Fueled by a continuing recovery in advertising revenue, CBS parent Viacom Inc. said Thursday its operating income rose 18 percent to \$1.3 billion for the quarter ended Sept. 30 after adjustments.

The company, which depends on ads for about half of its revenue, said the third-quarter advertising strength is continuing into the fourth quarter, led by its broadcast and cable networks and TV stations. But analysts said it is unclear how strong the second half of 2003 will turn out for ad sales.

"It's a coin toss what the second half of 2003 will look like," said Kaufman Bros. analyst Paul Kim.

"Despite the current strength in the advertising market," Morgan Stanley analyst Richard Bilotti told investors, "we believe it will be difficult for Viacom to grow advertising revenue in excess of 6 to 7 percent in 2003." Bilotti cut his rating to "underweight." Viacom's stock, whose price has held up much better than most other big media companies, fell 6 percent, or \$2.88 per share, to close at \$44.30.

CBS has jumped to the top of overall ratings and shows like "CSI: Crime Scene Investigation" and "Survivor" have made Thursday nights for CBS the most profitable night for any network, Viacom said.

Two Held in Sniper Attacks, Weapon Linked to Shootings

By Carol Morello, Christian Davenport, and Hamil R. Harris
THE WASHINGTON POST

A military-style, .223-caliber rifle allegedly seized from two suspects in the Washington area sniper attacks has been linked by ballistics tests to 11 of the 13 shootings, authorities announced Thursday night, climaxing an exhaustive investigation and signaling the end of a three-week siege by a seemingly faceless gunman who terrified the region with indiscriminate killings.

"Tonight, people in the Washington metropolitan region are breathing a collective sigh of relief," said Montgomery County, Md., Executive Douglas Duncan, appearing at a news conference Thursday night with law enforcement officials in Rockville, Md., where the manhunt was based.

An Army veteran of the Persian Gulf War and his teenage companion, who were arrested early Thursday, had not been charged in the attacks as of Thursday night. But authorities left no doubt that they intend to charge them in the shootings, which began Oct. 2.

"Just because people haven't been formally charged doesn't mean

there isn't evidence to charge them," said Montgomery County State's Attorney Douglas Gansler. "There's a great sense of relief among law enforcement that the people apprehended have been definitively linked to these particular crimes."

Montgomery Police Chief Charles Moose, a spokesman for the task force investigating the shootings, said prosecutors would meet Friday to discuss charges against John Allen Muhammad, 41, and John Lee Malvo, 17. Muhammad was ordered held without bail Thursday on a weapons charge, and the youth is being detained as a material witness in the sniper investigation.

Despite the arrests, many mysteries remain, including the motive for the attacks. The pair had been living in Washington state, and it is unclear why they allegedly chose to make the Washington, D.C., area their shooting range. Their relationship is also unclear, and it is unknown whether one or both are suspected of having pulled the trigger in the attacks.

Moose, cautioning that the two are not accused of being the snipers, said, "However, we now consider

them suspects in the string of shootings."

Contrary to a theory that prompted wide speculation, there is no evidence that Muhammad or Malvo is connected to a terrorist organization, law enforcement sources said.

But detectives are examining reports from acquaintances that Muhammad may have sympathized with Osama bin Laden and approved of the Sept. 11, 2001, attacks on the World Trade Center and Pentagon.

A Bushmaster XM-15 rifle, which fires .223-caliber rounds, has been "forensically determined to be the murder weapon," said Mike Bouchard of the federal Bureau of Alcohol, Tobacco and Firearms.

Police said they could link the rifle to 11 of the 14 shootings, in which 10 people were killed and three were wounded in Washington D.C. and in Montgomery and Prince George's counties in Maryland; and Spotsylvania, Prince William, Hanover and Fairfax counties in Virginia. In one shooting, no one was injured. Bullets or fragments from the other two shootings were too badly damaged to be tested, officials have said.

Bush to Ask China to Pressure North Korea on Nuclear Arms

By Mark Matthews

THE BALTIMORE SUN

WASHINGTON

After 18 months in which the United States and China veered from mutual distrust to cooperation, President Bush will put the warming relations to a strategic test Friday, when he will ask China to apply pressure on North Korea to scrap its nuclear weapons development.

Playing host at his Texas ranch to the soon-to-retire President Jiang Zemin of China, Bush is expected to offer a sweetener in return: a resumption of high-level defense talks that were suspended after China detained the crew of a U.S. spy plane that collided with a Chinese fighter jet in April 2001.

U.S. officials view China as vital to bringing a peaceful end to the latest crisis with North Korea, which stunned the world this month by acknowledging that it was trying to produce highly enriched uranium, a fuel for nuclear weapons, in violation of agreements barring nuclear weapons development.

Bush hopes for a diplomatic solution to the crisis with North Korea, to avoid a military confrontation on the Korean peninsula. About 37,000 American troops are stationed in South Korea, close to the border with the North.

China, which shares a long border with North Korea, has been a close ally of Pyongyang and a key supplier of food and fuel to the Stalinist dictatorship. But U.S. offi-

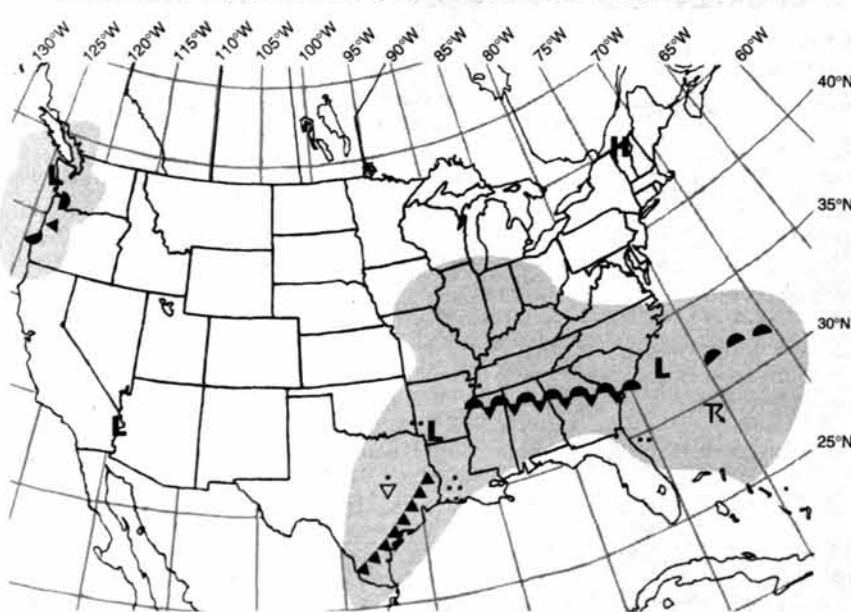
cials say that China shares Washington's fear that North Korea will become a nuclear power. They want Beijing to make clear to Pyongyang that it won't succeed in dividing the international community.

"We hope they condemn it and call for it to be ended and verifiably disassembled," a senior administration official said Thursday.

After meeting with Jiang, Bush will travel to a summit of Pacific Rim leaders in Cabo San Lucas, Mexico. At that summit, the concerns surrounding North Korea are expected to dominate a meeting Saturday that Bush will have with President Kim Dae Jung of South Korea and Prime Minister Junichiro Koizumi of Japan.

WEATHER

Situation for Noon Eastern Daylight Time, Friday, October 25, 2002



Two Dark Days

By Bill Ramstrom
STAFF METEOROLOGIST

It's not looking like a good weekend for those hoping to see a lot of sun. Saturday will be windy and rainy, while Sunday will feature clearing skies, but a sunset around 4:45 p.m., thanks to the end of daylight savings time.

A large storm is developing over the lower Midwest today, and will bring a period of heavy rain to Boston on Saturday. This will be followed by another cool airmass from Canada, keeping our temperatures at or below normal into next week.

Extended Forecast

Today: High clouds. High of 49°F (9°C).

Tonight: Cloudy with rain by morning. Low of 42°F (6°C).

Saturday: Rain, heavy at times. High of 54°F (12°C).

Saturday night: Rain ending during the evening, then clearing. Low of 44°F (7°C).

Sunday: Sunny and brisk. High of 56°F (13°C).

Monday: Fair and slightly cooler.

Weather Systems	Weather Fronts	Precipitation Symbols	Other Symbols
H High Pressure	- - - Trough	Snow *	Fog
L Low Pressure	— Warm Front	Light Rain ▽	Thunderstorm
§ Hurricane	▲ Cold Front	Moderate Rain **	Haze
	▲ Stationary Front	Heavy Rain ***	

Compiled by MIT
Meteorology Staff
and The Tech

Report Says Stalled Security Leaves U.S. Open to Terrorism

By Vicki Kemper
LOS ANGELES TIMES

WASHINGTON

Enormous logistical challenges and widespread complacency have stalled homeland security efforts, leaving the United States "dangerously unprepared to prevent and respond" to another terrorist attack, an independent task force warns in a new report.

Yet the Bush administration's preparations for war against Iraq only increase the likelihood of an attack against Americans involving weapons of mass destruction, according to the 17-member bipartisan group, which includes two Nobel laureates, two former secretaries of state and two former chairmen of the Joint Chiefs of Staff.

"If our foreign policy requires that action be taken against Iraq, we have to be prepared for retaliation," said former Sen. Warren B. Rudman, co-chairman of the task force, which was sponsored by the nonpartisan Council on Foreign Relations.

The group's report, to be released

Friday, recommends immediate action to better secure the nation's ports, roads and railways. While intensive security measures have been implemented at airports since last year's terrorist attacks, "a weapon of mass destruction could well be hidden" in shipping containers, trucks and trains, the report says.

Government officials also must redouble their efforts to prepare police, fire and emergency medical personnel to respond to a bioterrorist attack and to better link local, state and federal authorities, the report says. In addition, it says National Guard units should be trained and deployed to impose civil order in the aftermath of such an attack.

While the creation of a new Department of Homeland Security has stalled over disagreements between President Bush and Democratic leaders in Congress, task force members were careful to avoid assessing blame for what they consider a dangerous lack of progress in homeland security efforts.

"There is a serious lack of

urgency about moving on homeland security in some areas that do not require legislation," former Sen. Gary Hart, the task force's other co-chairman, said in an interview. "The president and congressional leaders could have taken some of these steps months ago. We are urging them to get on with it."

Rudman also called on governors, mayors and other local officials to get more involved in homeland security efforts.

Hart, a Democrat from Colorado, and Rudman, a New Hampshire Republican, have been calling for similar actions since months before terrorist hijackers flew commercial airliners into the World Trade Center, the Pentagon and a Pennsylvania field last Sept. 11, killing about 3,000 people.

An earlier commission led by the two men warned in January 2001 that the nation was vulnerable to a terrorist attack. It recommended then that the federal government be reorganized around a homeland security mission.

Bush Administration Announces \$159 Billion Deficit for Year 2002

By Dana Milbank
THE WASHINGTON POST

WASHINGTON

The Bush administration late Thursday announced a budget deficit of \$159 billion for the fiscal year just ended, confirming that the federal government officially returned to the red for the first time since 1997.

The announcement of the budget deficit for fiscal year 2002 wasn't a surprise; the administration had earlier projected a slightly larger deficit for the year as the surplus was consumed by recession, war spending and tax cuts. Still, Democrats pounced on the official figures — a \$286 billion swing from the previous year — as evidence that the Bush administration had presided over what the opposition called the largest one-year fiscal reversal in the nation's history.

President Bush's budget director, Mitch Daniels, said the deficit figure made it "absolutely essential" that the government keep tight controls over spending. "It's now clear that the unexpected surge in revenues toward the end of the last decade was temporary, and that revenues are returning to historic levels for reasons unrelated to legislated changes," he said in a statement. "At the same time, unexpected new

defense and homeland security spending is needed to protect America from new threats."

House Minority Leader Dick Gephardt (D-Mo.), countered that the numbers represented "an incredible turnaround, probably the most stunning change in figures we've ever seen." In an interview, Gephardt indicated Democrats would use the new figures as evidence of broader economic troubles as they campaign for midterm elections in 12 days. "It's just one more part of the picture," he said. "We are heavily into deficits and spending Social Security money in addition. The economy is stuck in neutral if not falling, and we could be headed for a double dip recession."

The official release of the 2002 budget figures is scheduled for Friday, but the administration released the key numbers Thursday night in what Democrats interpreted as an effort to bury the bad news on a day dominated by developments in the sniper case. The Office of Management and Budget reported receipts of \$1.853 trillion for the year and spending of \$2.012 trillion, yielding the \$159 billion deficit in the year ended Sept. 30.

The surplus, which began in 1998, peaked at \$237 billion in 2000 and slipped to \$127 billion in

the 2001 fiscal year. The 2002 deficit was the largest since the 1995 fiscal year produced a \$164 billion shortfall.

Earlier in the week, Daniels estimated the fiscal 2002 deficit would be about \$165 billion. The Congressional Budget Office had expected \$157 billion.

The federal deficit, now official, could have implications for arguments over government spending when Congress returns next month. Bush, in campaigning for Republican candidates, has been calling on Congress to make last year's tax cuts permanent; they're set to expire after nine years under current law.

"In order to make sure that our economy grows, in order to make sure the job base is strong, you need to have a congressman who will join me in making sure that tax relief plan we passed is permanent and doesn't go away," the president said at a political rally late Thursday in Auburn, Ala. Bush didn't mention the budget figures, which were released just before he spoke.

Thomas Kahn, the minority staff director of the House Budget Committee, said making the tax cuts permanent would cause a deficit over the 10 years through 2011 of \$408 billion.

Rebels Demand Removal of Troops, Threaten to Begin Killing Hostages

By Peter Baker
and Susan B. Glasser
THE WASHINGTON POST

MOSCOW

Declaring their readiness to die for their cause, Chechen rebels holding a theater audience of up to 700 people captive in the heart of Moscow threatened Thursday to begin killing them if Russia doesn't withdraw troops from the breakaway southern republic of Chechnya within a week.

One person was killed in the initial assault Wednesday night. President Vladimir Putin linked the attack on the theater to international terrorism and canceled plans to travel to Mexico to meet with President Bush at an Asian-Pacific economic summit this weekend. He made no move toward meeting the Chechens' demand.

At least three Americans are among the hostages, who are being guarded by as many as 50 masked guerrillas armed with assault rifles and explosives strapped to their

bodies.

"I swear by God we are more keen on dying than you are keen on living," an unidentified hostage-taker said in a video shown on the Arabic-language television network al-Jazeera. "Each one of us is willing to sacrifice himself for the sake of God and the independence of Chechnya."

"Even if we are killed, thousands of brothers and sisters will come after us, ready to sacrifice themselves," a female militant, her face covered except for her eyes, said in the same broadcast.

On Thursday afternoon, on-again, off-again negotiations brought the release of five hostages, and the rebels later released the body of a woman in her twenties who authorities said was shot to death in the early hours of the crisis when she defied her captors.

Sporadic gunfire and explosions were heard from the scene at various points Thursday, but reports were sketchy about what was hap-

pening. At one point, Russian media reported that militants fired rocket-propelled grenades out the window of the theater as two young women were making their escape, injuring a Russian soldier.

Hundreds of heavily armed Russian troops, police officers and special forces surrounded the theater but held back from storming the building, located in southeast Moscow, three miles from the Kremlin. Reports indicated that about 45 children remained inside the theater.

The hostage crisis gripped Russia, which has not seen such a dangerous standoff in the middle of its capital since the tumultuous early 1990s.

More than 24 hours into the ordeal, a few hostages inside the theater managed to call out on cellular telephones to report on the deteriorating atmosphere inside. "The tension is escalating," said one of them, Maria Shkolnikova. "The demands of the terrorists are turning into an ultimatum."

Gore Calls for New Emphasis On Public Health Services

THE WASHINGTON POST

WASHINGTON

Former vice president Al Gore, citing a growing threat of a biological weapons attack against the United States, Thursday said curbing the "dangerous weakness" of the country's public health services should be the nation's top health care priority.

Gore said that possible war with Iraq — and intelligence suggesting that the Iraqis would respond with a biological attack aimed at the U.S. — as well as the re-emergence of Osama Bin Laden's al-Qaida network have created "an immediate and urgent need" for action by the federal government to protect the population.

"The strong possibility of a biological weapons attack against the United States demands a new and comprehensive response," Gore said at the George Washington University Medical Center. "We need a new national defense public health act to responsibly address this imminent threat."

In the third of a series of policy speeches before the November midterm election, Gore largely set aside partisan criticism of the Bush administration in an effort to open a new front in the debate over health care policy. He said that the lack of health insurance coverage for millions of Americans must take "a back seat" to the more pressing threat of improving the public health service's capacity to deal with an attack from anthrax, small pox or ebola.

Study Cites Differences In Stroke Symptom Reports

NEWSDAY

Men and women do not use the same terms to describe stroke symptoms, a troubling difference that may leave some women sitting in hospital waiting rooms rather than being triaged for an emergency, according to a team of researchers.

Writing in Friday's *Annals of Emergency Medicine*, researchers found that while in the midst of a stroke, women were 62 percent more likely than men to use terms that did not describe classic stroke symptoms.

The study of 1,124 patients by a team of researchers from the University of Michigan in Ann Arbor and the University of Texas Health Science Center in Houston, documents for the first time a gender difference in the way patients describe a stroke.

"We know from the cardiac literature that women are much more likely to report vague or non-classic symptoms of a heart attack," Dr. Lise Labiche, a cardiovascular specialist at the University of Texas, said yesterday. "With stroke symptoms we have been behind the times," she continued. Labiche said women were more likely than men to report episodes of severe hiccups, facial pain, nausea and shortness of breath — all symptoms that may not be immediately recognized as signaling a stroke.

JetBlue Stock to Split

NEWSDAY

JetBlue Airways, which sold shares to the public in April, Thursday announced a three-for-two split of its common stock.

A discount carrier whose route structure is based mostly at Kennedy International Airport, JetBlue said the stock split will be distributed Dec. 12 to shareholders of record Dec. 2. It will increase the outstanding shares by 50 percent to about 63 million.

Airline industry consultant Robert Mann said increasing the number of shares, effectively lowering share prices, could benefit shareholders, including employees who hold options, by raising the upside potential of the stock. He said employees holding larger numbers of options than before the split have a greater opportunity to earn a profit, assuming the company continues to do well, which depends greatly on them.

Companies often authorize a split to make stock ownership more affordable to more investors. The stock hit a low of \$29.75 Oct. 10. JetBlue's high of \$55.15 was reached on May 6. Thursday, it closed at \$36.90, up 46 cents.

Mann said although JetBlue has been a success story, it faces increasing competition as it grows — in particular, he said, from Delta Airlines in the New York to Florida market, from American Airlines in the San Juan market and from Southwest Airlines to the West. "So far, the going's been good but their greatest competitive challenges are ahead of them," said Mann. "The startup itself, while an achievement, doesn't represent more than the beginning of a long term competitive struggle."

Previously Conjoined Twins Prepare To Return Home to Africa

THE BALTIMORE SUN

BALTIMORE

Three days short of their first birthday, they have tiny baby teeth, a vocabulary that includes "mama" and "bye-bye" — and the milestone of their first unassisted steps not far in the future.

Christine and Loice Onziga — the conjoined twins separated in April during a 12-hour operation at the University of Maryland Medical Center — are developing into normal, healthy children and are preparing to return to their native Africa next week.

"I feel so excited to go back home with the two healthy girls and to meet with the rest of the family," Gordon Onziga, 29, said Thursday at an early birthday celebration at the hospital, attended by more than two dozen medical professionals who have worked with his daughters. "I thought that I was going to just dream about it."

When the twins arrived in Baltimore in February fused together, they sometimes cried and screamed when they were touched or shifted. Now independent of each other, they happily wave hello and goodbye, open their arms for hugs and stand and walk — albeit with help.

But it took hours of physical therapy after the operation to get the sisters to do even the most seemingly basic things, such as turn their necks. A combined six pounds when delivered by Caesarean section, the two were attached from the breastbone to the navel, with their hearts, livers and diaphragms joined.

OPINION

Let's Be Honest About Housing

As pledge numbers begin to stabilize, the first year of rush with freshmen on campus yields more questions than answers. Doomsday predictions of the entire FSILG system collapsing,

Editorial

not all that uncommon when President Vest first announced his decision four years ago, seem to be unfounded. To date, 293 students have pledged, somewhat short of the typical 350 or so in recent years, but a respectable number for the first year of an entirely new system.

No, Delta Kappa Epsilon will not cease to exist next year because no one has yet pledged this year. With transitional funding for empty beds and perhaps a few graduate or CMI students, FSILGs will make it, at least this year. But now is when everyone at MIT, especially the administration and FSILG leadership, needs to be honest about MIT's housing system, and how it must change in the next few years.

Approximately 3,000 on-campus beds exist for undergraduates, thanks to the recent addition of Simmons Hall and some borrowed space in Sidney-Pacific. Chancellor Clay's goal of zero crowding was met this year thanks to this borrowed space, and the administration's stock answer seems to be "wait and see" — hopefully, more students will pledge over the year, and enough students will move off campus to avoid re-crowding or stealing more beds from graduate students.

However, the problem at MIT is not a shortage of beds for undergraduates. The real problem is overcapacity. Prior to this year, some 350 people needed to move off campus for the housing system to be sustainable. Roughly 1,400 people lived in FSILGs in any given year; this year, Simmons Hall pulled 350 of these students into on-campus housing, leaving 350 empty beds. Some of these have been filled by graduate students, but MIT doesn't need 1,400 off-campus beds anymore.

MIT will never again be able to house so many students off campus. This would require approximately 450 students from each class year to live in FSILGs. Considering that an overwhelming majority of off-campus beds are in fraternities, this would mean that nearly the entire male population of each class would pledge each year. There simply are not that many students who want to live in FSILGs. Moreover, MIT has committed to maintaining the current class size, and a full FSILG system would open up too many beds in Institute housing.

In his Sept. 5, 2002 letter to FSILG presidents, Chancellor Clay talks about supporting FSILGs through the transition with financial support, and he discusses several possibilities of what transition might mean. "Re-size" — make your FSILG smaller. House graduate students. Physical changes to the house — in Clay's words, "you may discover excess capacity and new and cre-

ative ways to use it, including the possibility of leasing excess property." And the most frightening word to FSILG members, "consolidation."

The bottom line is between the lines: MIT expects to lose FSILGs. MIT has expected this all along, but the administration has not done an adequate job preparing for this eventuality, nor has the Interfraternity Council, Panhellenic Association, or Living Group Council.

The current rush numbers show a very uneven distribution of pledges, from zero in DKE to 21 in PBE. If each FSILG was short a few people, then perhaps with graduate students and alumni support, they could manage to get by indefinitely with some empty beds. Unfortunately, reality is not so kind. Some FSILGs will not attract enough students to survive the transition, and as difficult as this is to admit, especially for members, this is not a problem for MIT. That is, of course, if the transition is handled correctly.

The worst thing that could possibly happen to MIT is for too many FSILGs to collapse under the financial burden of empty beds. If this occurred, MIT could suddenly be short dozens or even hundreds of beds, and a new dorm cannot be built overnight. MIT and the FSILGs must find a way to manage the transition so that the right number of houses survive. As painful as this will be, it will benefit MIT in the long term. Losing too few houses will not solve the overcapacity problem, but losing too many would be a disaster.

Currently, however, *The Tech* sees no evidence of the careful planning this will require from both the administration and the FSILG leadership. The times demand brutal honesty from all parties, and strong leadership to emerge from the rubble that is the IFC. Though it has lost influence as sororities and ILGs have established their own governing bodies, the IFC is still the best chance the students have to make the administration handle the transition responsibly and fairly.

Losing living groups is not good for the MIT community. The diversity of housing options, especially some of the unique living experiences in ILGs, is part of what makes MIT special. With fewer choices, there is certainly the chance that fewer students will pledge, and a vicious cycle of fewer and fewer pledges for fewer and fewer houses could ensue. Moreover, the current imbalance in pledges does not help MIT's on-campus situation as much as it might appear; certainly PBE will not have room for 21 students from the Class of 2006 next year. There is also the somewhat frightening possibility that many students who pledged as freshmen will decide to stay on campus as sophomores — what is to stop them from doing so?

The time has come for MIT to face the facts and the harsh reality it has created by housing all freshmen on campus. A wait-and-see, hope-for-the-best approach is not the answer.

Letter To The Editor

Let's Be Sensible

In Response to Michelle Kaufman's column ["Human Rights? Let's Be Honest"] in last Tuesday's issue of *The Tech*:

Ms. Kaufman might as well have argued that smoking, a widespread practice among Palestinians, probably kills more Palestinians in a single month than Israel has between 1948 and the present. Unfortunately, exact numbers are unavailable and evidence for this statement cannot be produced because these countries do not have free presses. Nevertheless it is criminal and hypocritical to discuss Israel, while Palestinians, Ukrainians and Omanis continue to smoke.

Shihab Elborai G



Opinion Policy

Editorials are the official opinion of *The Tech*. They are written by the editorial board, which consists of the chairman, editor in chief, managing editor, executive editor, news editors, features editor, and opinion editors.

Dissents are the opinions of the signed members of the editorial board choosing to publish their disagreement with the editorial.

Columns and editorial cartoons are written by individuals and represent the opinion of the author, not necessarily that of the newspaper.

Letters to the editor are welcome. Electronic submissions are encouraged and should be sent to letters@the-tech.mit.edu. Hard copy submissions should be addressed to *The Tech*, P.O. Box 397029, Cambridge, Mass. 02139-7029, or sent by interdepartmental mail to Room W20-483. All submissions are due by 4:30 p.m. two

days before the date of publication.

Letters and cartoons must bear the authors' signatures, addresses, and phone numbers. Unsigned letters will not be accepted. No letter or cartoon will be printed anonymously without the express prior approval of *The Tech*. *The Tech* reserves the right to edit or condense letters; shorter letters will be given higher priority. Once submitted, all letters become property of *The Tech*, and will not be returned. *The Tech* makes no commitment to publish all the letters received.

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Errata

A Oct. 22 opinion article ["Human Rights? Let's Be Honest"] made use of some material from another column without proper attribution. Several sentences of the article were taken from a May 31, 2002 *Forward* column ["Divest and Conquer"] by Alan M. Dershowitz.

An Oct. 22 article ["Tough Head for Heavyweights, But Alums Dominate Sculling"] incorrectly identified a Fairfield Rowing Club as one of Hamilton College.

A caption on Oct. 22 incorrectly identified a song performed by the Chorallaries as "Suerta." The song is "Suerte."



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The Trouble With Israel

Guest Column
Aimee Smith

It is hard to talk about the history of Israel and the relations of people in the region of historic Palestine in the US because most of us "Americans" have been kept from learning much about history or even basic geography.

When I read the column about the visit of Israeli Knesset member Benny Elon ["A potential Middle East Solution," Oct. 18] by Maxim Shusteff and Jake Solomon, I noticed that the authors described the event as demonstrating much academic decorum, somehow further legitimated by the diverse spectrum of questions.

I do not believe the event lived up to the ideas of openness and academic freedom. The questions in fact covered a wide spectrum, from "great, but how are we going to do it" to "have you lost your humanity entirely?" but the audience was very averse to any sort of critical questions and did try to cut those questions off.

To the moderator's credit, he did stand up to the mob mentality and allowed the questions. Even if one should or could listen coolly as Mr. Elon gave his "creative" solution of transferring the remaining Palestinians in the occupied territories east of the Jordan River into Jordan, by force if necessary, there was one incident which was particularly disturbing. Before stating my question during the Q&A session, I asked him why he wanted the full names of those asking questions, and if he was planning to pass my name off to the JDL (The Jewish Defense League, a Zionist terrorist group.) He responded that he would if he didn't like my question. I suppose he intended to be amusing, but I think the joke brings out a deep contradiction in this conflict. Palestinian resistance to being driven out of their home-

lands is given endless scrutiny and condemnation, but pro-Israeli naked military aggression and Kahanian style terror used to maintain this immoral colonization project on the homeland of other people is hardly mentioned, let alone scrutinized.

In spite of his real or joking threat, I want to thank Mr. Elon for his candor on other points. He mocked the state that was offered to the Palestinians as being nothing more than bantustans that are only connected by airplane routes and have no control of the resources or borders. The laughter to his joking analysis from the audience indicates that many of them must agree, although I believe I have heard

But my Palestinian friend says it best: "I didn't know God was a real estate agent who could steal land from one people and give it to another."

some of these same people argue to the contrary. The other important point that Mr. Elon made was that many Palestinians were in fact driven from their homelands in 1948 — i.e. Palestine was not in fact "A land without a people for a people without a land" as the racist myth goes.

His argument for why Israel belongs to the Jews? Simple: God gave it to the Jews. If using God as a justification for conquest and ethnic cleansing is not at odds with modern notions of intellectual discourse and democracy, I don't know what is. But my Palestinian friend whose grandfather was shot to death by Zionists in 1947 and whose grandmother died

at a checkpoint last year says it best: "I didn't know God was a real estate agent who could steal land from one people and give it to another."

The problem with Israel is that it is a racist, colonial, settler state built on ethnically cleansed lands. I use the word "racist" here to describe the inherent nature of any colonial project set up by white Europeans to evict and control land that is populated with non-Europeans. Some might call this "Western Cultural Imperialism," but I would argue that implementing such a program would not be possible without first objectifying and demonizing the those who populate the target land. And further, this is not an unusual or new sort of problem.

We saw a similar colonization project carried out in South Africa. There, under apartheid, legal segregation was explicit and enforced until quite recently. Israel has an apartheid structure based on a unique mix of culture and religious identity, but however convoluted the scheme for determining who gets first class status and who gets no status, the differences are marked clearly on identity cards and license plates. Certainly no one has any right to blame Judaism for this implementation of the goals of Zionism. In fact, those who wrap their Zionist ideology in Judaism are lying because Judaism the religion and Zionism the ideology have nothing in common.

Just as most Muslims reject the actions of the 9/11 hijackers, many Jews reject Zionism as a form of racism that has attempted to hijack their faith. Moreover, failure to criticize the implementation of Zionism, which is Israel, is racism. For United States citizens, when the weapons used to enforce it and expand it are stamped with "made in USA," failure to criticize is complicity.

Aimee Smith is a postdoctoral associate in the Department of Materials Science and Engineering.

Fighting Dichotomy

Andrew C. Thomas

If I had the means the money and the manpower, I would spend the great bulk of my time and effort waging war. Not a war of bullets and bombshells, but a war of ideology. I would fight black and white.

If there is one philosophical concept I think has caused more trouble than any over time, it is dichotomy. The idea that one object, per se, can be evenly divided between two groups, is incredibly powerful and yet incredibly troublesome.

Dichotomy is the root of logic, and thus of mathematics. Either something is, or it ain't. By evenly splitting statements into two groups — true or false, correct or incorrect — we establish a very clear set of rules. For thousands of years, logic and mathematics have proven themselves both formidable tools, nearly infallible to criticism, since they are completely sufficient on their own terms.

Well, more or less. Kurt Godel proved that no mathematical or logical system is completely self-sufficient. That this snafu is resolved by the application of a little faith is unimportant, because what we can purposefully extract out of this tools works. We can accept with our own eyes and senses that these concepts work. Thanks to them we have such wonders as global communications and atomic bombs.

Surely, though, it should be evident that dichotomy cannot and should not extend past certain areas. This forbidden territory is firmly entrenched into the basic human condition itself.

It's ridiculously simple to suggest that any question can be answered yes or no. Even a question like "what color is the sky?" defies a simple answer. The defeat of logic as a practical tool for exploring every element of our existence comes at the threshold of experience and communication. I could give a bitmap description of the entire sky at sunset, but it's beyond your capability to appreciate it in the same way unless you had seen it for yourself.

American two-party politics, however, is the absurd extension of binary logic. Two giant organizations have sliced up the country between them roughly evenly and take opposing answers to the same problems. Immediately there is a logical problem. America was not based on one question with a yes-no answer — aside from "Do we want to separate from Britain," another overly dramatic simplification. It should be obvious that neither political party can possibly be completely right in their methods for running the country, since if their track record was that good they never would have relinquished control of power.

A question many people have asked, typically in a comedic setting, is how a person can be for the death penalty but against abortion, or the reverse. This is an attempt to draw a line at what point it is morally acceptable to kill. Opponents typically try to argue that a woman has a right to control her body, but that no one has a right to kill any other fully formed human being. Both of these positions do have logical evolutions based on bona fide moral premises. But why not consider the moral idea that life is sacred? Under that supposition we should not have the right to kill the unborn or the convicted. There are many people who follow this moral code, and yet this position sees no major representation in the American political system.

It is a fair point to make that there are several third parties, some of which could legitimately cause this change, bringing American political thought into a new paradigm entirely. Some day I hope that at least two of these parties will emerge to join the giants. Only one would be dangerous, and would likely gravitate towards one party or the other, as was seen with the Green Party in the 2000 election. Some balance does need to be seen for this evolution to be stable.

Now, I do not mean to suggest that black-and-white thinking is unhealthy. On the contrary, we would not have the society we do today without it. And it still must be applied in the political system; surely, every voting citizen has a different opinion of the way things should be. I do not believe that America, or at this point any country on earth, has the political maturity to function on direct democracy and avoid the drawing of party lines.

It's certainly a shame that neither party would logically support the addition of other powerful entities. It would be, among other things, bad for business. Perhaps it is the love of country that both parties seem to preach that will help them realize that a move away from black-and-white division might actually be in their best interests.

Design a Peaceful Solution For the Middle East

Guest Column
Alexander H. Slocum

I would think with all the brains we have from all over the world at MIT, we should be able to design a system that the entire world could embrace. In fact, it is in our self-interest to do so, for if the United States acts unilaterally, right or wrong, it will degrade our economy and stature until we no longer have the power to act as we might believe we should. I would think that by reciprocity, if we could achieve true peace in an area, then we all should be able to avoid war.

Peace and prosperity can be brought to the Middle East, if the United States, Israel, and the new must-soon-to-be state of Palestine work together to make it happen in a manner that all countries can embrace.

But why should the Arabs and Palestinians cooperate? Why should they not instead use their petrodollars to enable them to succeed in eventually eliminating Israel (and the United States)? Because Arab nations should, with the help of the world's greatest minds, evolve their economies into vibrant entities that are not dependent on petrodollars, for the oil will soon run out.

Why should the Israelis give up land they see they won in a war in which they were attacked? Because if Israel can make true peace with its Arab neighbors, vast new markets would open up for its high-tech goods, and it would see prosperity it could otherwise never have envisioned.

In order to accomplish this dream, it is probably a good idea to first examine some important background items:

The history of the creation of the state of Israel contains many unfortunate occurrences, among which include the creation of Palestinian refugees. Many of these refugees still have the keys to their houses which they pass down from generation to generation with the vow that they will return. Everyone has a price, and we just need to find it.

The majority of Palestinians and Israelis are peaceful people who want to get on with a good life. However, an eye for an eye and a tooth for a tooth will soon yield many blind people who can no longer see a path to peace and can only feed on hatred and fear.

Accordingly, we must start anew with the basic premise that if we were to put the resources we now allocate to military pursuits towards building vibrant nations of Israel and Palestine, both the Israelis and the Palestini-

ans could not only live in peace, they could prosper and become the best of neighbors.

To accomplish this, we must seek solution hypotheses from scholars, business persons, and the common people. Open debate and discussions among and between common people will be used to evolve a final workable plan. In particular, young people should lead the discussions which can become subjects in the schools. Furthermore, the Internet can be used as a catalyst for evolving ideas in the same manner it empowers international teams of design engineers to create sophisticated new products. Warriors, politicians and religious leaders must step back and see what this new idea generation process yields. Finally, the best ideas should be voted upon in a

Maybe one day in the future, we will see a new nation form, the nation of Palisraelistine.

democratic fashion.

As an important part of the process, it can begin with ideas that perhaps most of the world could agree would be reasonable ideas (boundary conditions). For example:

1. Israel should exist with its 1949 UN-defined borders, and it is free to put up a no-humans allowed green zone between itself and its neighbors to act as a bandage for the peace process until time heals the wounds incurred by years of war.

2. Palestine should consist of the West Bank, where the Israeli settlers would leave and turn over the houses they built to the Palestinians whose ancestral homes are in Israel. Palestinians would then renounce any claims to homes inside Israel. Israeli settlers could return to Israel to new cities that could be built with the money previously allocated to war.

3. Israel and Palestine should trade Gaza for a strip of land along the Israeli-Lebanon border, thereby giving Palestine port access and removing the problem of how to connect Palestine on the West Bank with Gaza.

4. Israel and Palestine should jointly build a pipeline to carry Mediterranean seawater through turbines to be placed at the Dead Sea to generate electricity which can then power homes and businesses in the area, as well as power desalination plants. The water flowing

into the Dead Sea would evaporate, thus forming a unique type of renewable energy resource.

5. The United States and the wealthy countries of the Middle East should finance these changes.

6. For every foreign aid dollar the United States gives to Israel, it should give a foreign aid dollar to Palestine; yet no military aid should be given to either country — only credits to buy non-military goods from US companies.

7. The United States should withdrawal all military forces from Saudi Arabia because of the issue of holy lands.

8. Israel, with its high-technology companies, could become a regional leader that helps its Arab neighbors develop economies that are not oil dependent, because the oil will not last forever.

9. Jerusalem should become an international city-state run by a council of moderate religious leaders from all the major faiths that have significant presence there, AND other major faith leaders to act as arbitrators.

The ideas can be used as seeds when seeking to develop a plan for true and lasting peace in the Middle East. No doubt some ideas will be deemed unworkable and will be replaced by better ideas. There can be no solution that pleases everyone, and there will always be extremists who will seek to use violence to derail the plan, just as they have in the past. However, once the majority of the people on both sides have agreed to a proper peace plan, there must be no stopping it. Notice that I left out politicians and religious leaders, as they have not done a very good job of leading given the continual crises.

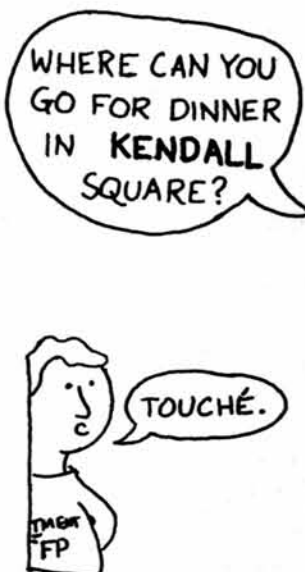
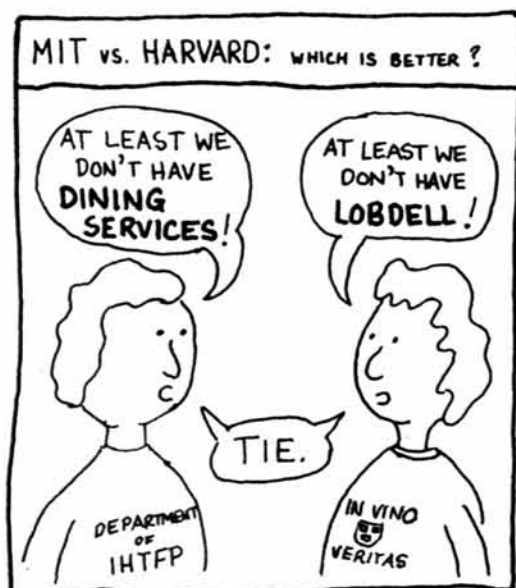
If such a plan were to be implemented, then the United States and its new friends could work to achieve peaceful, productive, positive changes with other regimes in the area. Maybe one day in the future, when people truly realize that we are all here on earth to experience the joys life has to offer, and that giving joy begets even more joy, we will see a new nation form, the nation of Palisraelistine.

Perhaps MIT could lead by creating a new cross-school course catalyzed by professors from different departments. I think *The Tech* could start the process off by creating a weekly column on "Design Suggestions for Peace."

Professor Alexander Slocum is a Professor in the Department of Mechanical Engineering.

Filler Space

"THEY DO HAVE A BETTER FOOTBALL TEAM,
I'LL GRANT THEM THAT"



NEWTON'S THREE LAWS OF GRADUATION

Though famous for his seminal work in Mechanics, Isaac Newton's theories on the prediction of a doctoral graduation formulated while still a grad student at Cambridge remain his most important contribution to academia.

FIRST LAW

"A grad student in procrastination tends to stay in procrastination unless an external force is applied to it"

This postulate is known as the "Law of Inertia" and was originally discovered experimentally by Galileo four years before Newton was born when he threatened to cut his grad student's funding. This resulted in a quickening of the student's research progress.

Galileo's observations were later perfected by Descartes through the application of "Weekly Meetings."

Before Galileo's time, it was wrongfully thought that grad students would rest only as long as no work was required of them and that in the absence of external forces, they would graduate by themselves.

(From Encyclopaedia Britannica)

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NEWTON'S THREE LAWS OF GRADUATION

First published in 1679, Isaac Newton's "Procrastinare Unnaturalis Principia Mathematica" is often considered one of the most important single works in the history of science. Its Second Law is the most powerful of the three, allowing mathematical calculation of the duration of a doctoral degree.

SECOND LAW

"The age, a, of a doctoral process is directly proportional to the flexibility, f, given by the advisor and inversely proportional to the student's motivation, m"

Mathematically, this postulate translates to:

$$age_{PhD} = \frac{flexibility}{motivation}$$

$$a = F / m$$

$$\therefore F = m a$$

This Law is a quantitative description of the effect of the forces experienced by a grad student. A highly motivated student may still remain in grad school given enough flexibility. As motivation goes to zero, the duration of the PhD goes to infinity.

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NEWTON'S THREE LAWS OF GRADUATION

Having postulated the first two Laws of Graduation, Isaac Newton the grad student was still perplexed by this paradox: If indeed the first two Laws accounted for the forces which delayed graduation, why doesn't explicit awareness of these forces allow a grad student to graduate?

It is believed that Newton practically abandoned his graduate research in Celestial Mechanics to pursue this paradox and develop his Third Law.

THIRD LAW

"For every action towards graduation there is an equal and opposite distraction"

This Law states that, regardless of the nature of the interaction with the advisor, every force for productivity acting on a grad student is accompanied by an equal and opposing useless activity such that the net advancement in thesis progress is zero.

Newton's Laws of Graduation were ultimately shown to be an approximation of the more complete description of Graduation Mechanics given by Einstein's Special Theory of Research Inactivity.

Einstein's theory, developed during his graduate work in Zurich, explains the general phenomena that, relative to the grad student, time slows down to nearly a standstill.

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Crossword Puzzle

Solution, page 14

ACROSS

- 1 Napoleon's 1814 address
- 5 Apt. manager
- 9 Pie nut
- 14 British trunk
- 15 Manchurian border river
- 16 Make amends
- 17 Specific breed of foot soldier?
- 19 Avoids
- 20 Pigs' digs
- 21 Atelier stand
- 22 Epic tales
- 23 That girl's
- 24 Jungle vine
- 26 City south of Roma
- 29 Half a peal?

30 Slugger's stat.

- 33 Bottomless pit
- 34 Hindu social system
- 35 Get hitched
- 36 Dyeing containers
- 37 Walk-on part
- 38 Washed-out
- 39 Ordinal ending
- 40 Elizabeth and Robert
- 41 Guy
- 42 August sign
- 43 Building wings
- 44 Snow units
- 45 Japanese-American
- 47 Writer Bellow
- 48 Cubic meter
- 50 Iridescent gems

52 Bath place

- 55 Stratum
- 56 Specific species of shrew?
- 58 Looks everything
- 59 Cogito sum
- 60 Son of Seth
- 61 Military installations
- 62 Viewed
- 63 Brooding place

DOWN

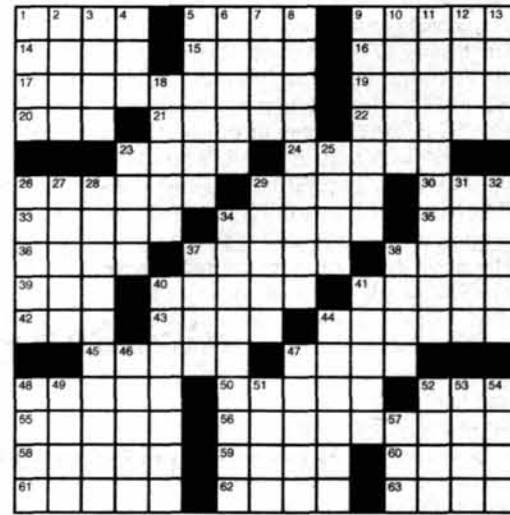
- 1 Flows back
- 2 Plunder
- 3 Squarish
- 4 Had a bite
- 5 Serengeti trek
- 6 New England sch.

7 Brownish purple

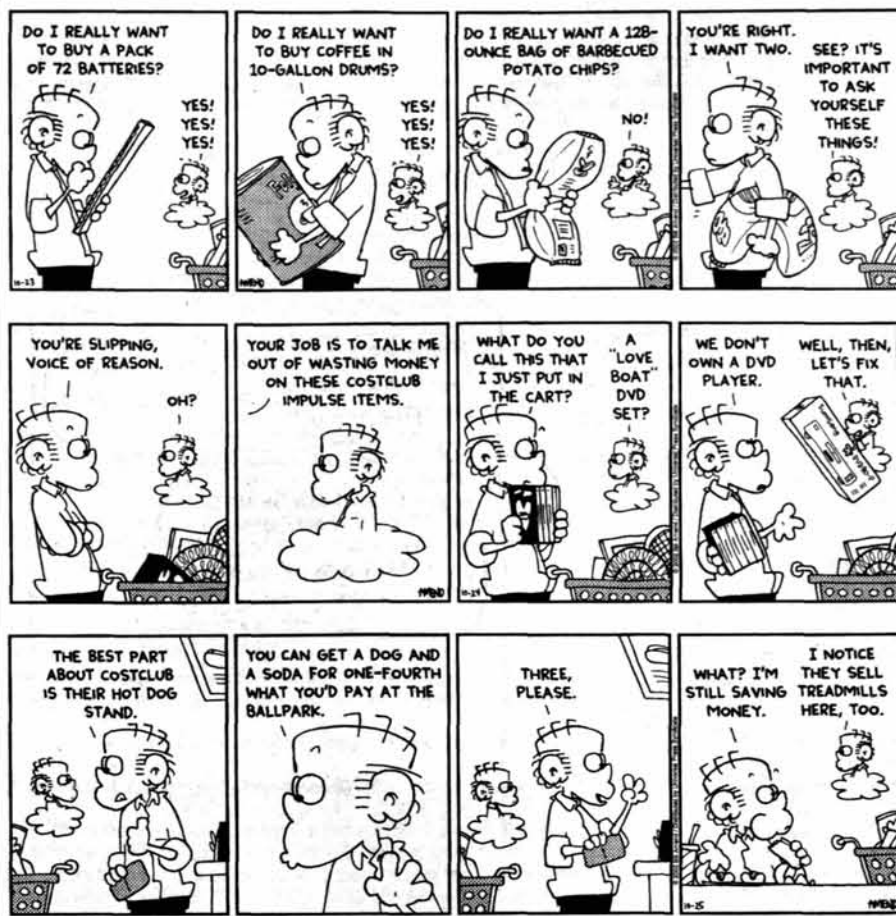
- 8 Latticework structures
- 9 Transit
- 10 "Frome"
- 11 Footway specifically for pumas?
- 12 O'Neill play, "Christie"
- 13 Scottish loch
- 18 Lively dances
- 23 "Bonanza" character
- 25 Hooked on
- 26 Orange variety
- 27 Slacken
- 28 Monty's throw of the dice, specifically?

29 Titled ladies

- 31 Strait of Isle
- 32 Brainstorms
- 34 Steam-whistle instruments
- 37 Old king of rhyme
- 38 Toll
- 40 Dry expanses
- 41 Turn red
- 44 Bird of prey
- 46 Dancing Castle
- 47 Casual military address
- 48 Thick slice
- 49 Skater Lipinski
- 51 Father of France
- 52 Pitchfork prong
- 53 ET vehicles
- 54 Outdo
- 57 Sebaceous cyst



FoxTrot by Bill Amend



Dilbert by Scott Adams



Down the Hatchet Going... Down??

By Akshay Patil
COLUMNIST

For those of you who have never used an elevator (and I know there are some of you out there, don't be shy), let me tell you — you're really missing out. And I'm not just saying that, I really mean it, from the very bottom of my... uhm... penguin... yeah,

bottom of my penguin.

I'll be standing a NE43 (LCS) elevator, minding my own business when in will walk two-thirds of my 6.001 textbook! It's a real danger. You become nervous with thoughts racing through your head: Should I make eye-contact? Should I stare at the floor? Will they capture me and subject me to painful parentheses-counting torture? That's when I notice the warm sensation creeping down my pants. Time to flee at the next stop.

And there's so much exciting uncertainty involved in getting on an elevator. After you push the button, how long will the elevator take to get to you?

After daring to hope for the instant gratification of a nice little "ping" followed by opening doors, I am inevitably disappointed to be greeted by silence. The waiting has begun. Seconds? A minute? An hour? It's nerve-wrecking. I stand in the taunting emptiness of the silence around me; desperately listening to clues that may prepare me for the arrival of my transport. Ear pressed against the wall, I go back to my primal instincts as I translate the hums, clicks, and whirs of the complex elevator language. I click and whirr back... but it never listens to me. Bastard.

When the elevator does come, more mysteries await! Are there people inside? People I know? People with chocolate? Will they burst out of the elevator and trample me, or will they look at me blankly and not budge since they're getting off on a different floor? Will they give me chocolate? One never knows.

Hopefully chocolate is involved, though. Mmmmmmm...

Of course, elevators can be the source of negative emotions as well. Nothing is more embarrassing than getting on an elevator going in the wrong direction. Well, maybe getting off on the wrong floor, but inevitably there are more people around to see you screw up in the first case than in the second. When you get on a wrong-direction elevator, this usually implies that there are other people in the elevator

who will be able to point and laugh at you when you scream, "Wait a minute! Why are we going up? I thought we were going down!" When you get off an elevator on the wrong floor, usually the only people around just got off too and are too busy scurrying to wherever they were headed. You can also fake things better; just pretend that you had a small errand to do on this floor. If you just wander around for a while before returning to the elevator, no one's the wiser. It's the perfect crime.

As I'm sure you know, the hot-button issue this election season is elevator thresholds. What constitutes absolute laziness? Taking the elevator to the fourth floor? Third floor? Second floor? First floor? We all have our limits, but do we really want to make these thresholds the law? Is it laziness to take an elevator down? Will it really kill us to go DOWN a few flights of stairs?

It's a touchy subject and the politicians need to make sure that the limits are safe and just. The last thing we need is more loopholes in our elevator laws.

That's why I urge you to vote no on Proposition W.

As with all forms of transportation, elevator riders are also subject to rage. I am not immune to this disease. I'll get on an elevator and feel comfortable pressing the "8" button and settle into my little corner of the elevator, waiting for the doors to close and transport me to oblivion (my UROP). Then someone else gets in and presses "7."

This annoys me; yes, they have just as much a right to use the elevator, but now it's gotta stop at the seventh floor, open the doors, wait for the person to exit, take its sweet time to close the doors, then get its massive self moving again only to start braking immediately in order to drop me off.

It's so inefficient! I want to strangle this person who has so thoughtlessly wasted 5 seconds of my day. Couldn't they have just gotten on, seen that the "8" button was pressed and said "oh, I'm sorry" and gone to use a different elevator? Or maybe they could just go up to the eighth floor and take the stairs down a flight. Come on! It's not hard! But no, you're going to inconvenience me and make my elevator stop at your goddam, stupid, worthless floor. I just want to reach out, grab you, and shake you, screaming "You f-ing piece of..."

Sorry. I'm from L.A.
Mmmmm... chocolate.

Fun with Fire III Hydrogen & Oxygen

By Michael Short
COLUMNIST

This experiment involves fire, bases, fire, toxic fumes, exothermic reactions and fire. Do it in a well ventilated, fire proof area outdoors, on a concrete or pavement surface with adequate eye and hand protection. Follow all safety precautions labeled on chemical products. In other words, don't be stupid — you can get hurt.



BrainPickings

Materials

For hydrogen production:

- 1/2 liter soda bottles (2)
- Water
- Drano CRYSTALS (not liquid, as it usually contains soap), or pure NaOH (sodium hydroxide) if you can get it
- A few square feet of aluminum foil
- Latex balloons

For oxygen production:

- 1/2 liter soda bottle
- Hydrogen peroxide (H₂O₂)
- One of the following: Sodium hypochlorite (NaClO, sold at Star Market) or Manganese Dioxide (MnO₂, not sold at Star Market)

What To Do

To make the hydrogen, fill the bottle about a third to halfway full with water. Dissolve a hefty amount of Drano crystals in the water (about 20 grams). Don't measure the Drano with your hand, as it will hurt you. Badly. Do not eat Drano, as it will also hurt you.

Now prepare to collect the hydrogen, because the reaction can take a variable amount of time to start. Get a balloon ready and put on heavy duty safety gloves and goggles.

Roll some aluminum foil into thin rolls. Feed them into the bottle — about half a square foot's worth should be sufficient. You will slowly see bubbles start to form — this is hydrogen. The reaction rate will speed up to a furious rate, and this is where things can get dangerous. The bottle will get hot, the fumes it gives off will be very acrid, and the plastic may begin to warp.

When the reaction warms up, quickly put a balloon over the neck of the bottle well. It should fill with hydrogen; when it does, remove the balloon and tie it off. You can probably get 5 balloons worth of hydrogen out of one charge.

To make the oxygen, fill a new bottle 1/2 full with hydrogen peroxide. Have a partner ready to collect the oxygen in the balloon, for this reaction happens extremely fast. Now dump either a pinch of MnO₂ or a capful of hypochlorite into the H₂O₂ bottle, and bottle the gas. Tie off the balloon and you have oxygen.

To light these things, tie a candle to the end of a hockey stick, light it and hold the flame under the balloon. It should produce a nice little orange fireball, as well as a loud pop of you're lucky.

To make a very loud bang, take two parts hydrogen, one part oxygen and combine them somehow (I haven't quite gotten this part to work every time). Stand back — your boom will be much quicker and louder!

Notes

- The more concentrated the H₂O₂, the better.
- The hypochlorite must not contain soaps, or you'll end up with oxygenated foam.
- The MnO₂ catalyzes the breakup of the H₂O₂ really really fast, so be ready to contain the oxygen!

Give the gift of gaff!

<fea-submit@the-tech.mit.edu>

Events Calendar

Visit and add events to Events Calendar online at <http://events.mit.edu>

Friday, October 25

10:00 a.m. – Admissions Information Session. Admissions Office Information Session gathers at the Admissions Reception Center (10-100). Enter MIT at the main entrance, Lobby 7, 77 Massachusetts Ave (domed building with tall pillars). Proceed down the center corridor to Room 10-100 on the right. Following the Admissions Information Session is a Student Led Campus Tour which begins in Lobby 7 (main entrance lobby) Groups over 15 people need to make special reservations, free. Room: Admissions Reception Center, Building 10, Room 10-100. Sponsor: Information Center.

10:45 a.m. – Campus Tour. Student Led Campus Tours are approximately 90 minutes long and provide a general overview of the main campus. Please note that campus tours do not visit laboratories, living groups or buildings under construction. Groups over 15 people need to make special reservations. Campus tours start at the conclusion of the Admissions Information Session. The Campus Tour begins in Lobby 7 (Main Entrance Lobby at 77 Massachusetts Ave). free. Room: Lobby 7 (Main Entrance Lobby at 77 Massachusetts Ave). Sponsor: Information Center.

12:00 p.m. - 1:00 p.m. – Element K Demo. Is web-based training on computer topics for you? Learn how to get started using web-based training through Element K (our current provider of web-based training on information technology topics) and explore the possibilities this vendor has to offer. For more information about web-based training at MIT, see <http://web.mit.edu/is/training/wbt/>. Room: N42 Demo. Sponsor: Information Systems.

1:30 p.m. - 3:30 p.m. – FOR GRADUATE STUDENTS: EFFECTIVE RESUMES AND COVER LETTERS. Graduate students know the basics of how to create a resume and cover letter. What is the secret of making these more effective? Get an employer's perspective on how to tailor your resume for a non-academic position. Bring along 3 copies of your current resume or draft for the peer critiquing exercise in this workshop. This is NOT a recruiting event, however we have invited several employer representatives to give their advice on what makes a resume or cover letter effective, applicable to grad students from all disciplines, both masters and doctoral candidates. Space is limited. Preregistration required. Go to <http://mit.edu/career/www/gradworkshops.html>. Go to "Calendar of Workshops" (bottom of page). Choose workshop title, free. Sponsor: OCSPA.

2:00 p.m. – Admissions Information Session. free. Room: Admissions Reception Center, Building 10, Room 10-100. Sponsor: Information Center.

2:45 p.m. – Campus Tour. free. Room: Lobby 7 (Main Entrance Lobby at 77 Massachusetts Ave). Sponsor: Information Center.

4:00 p.m. - 5:00 p.m. – PSFC Seminar. "The Physics of Collisionless Magnetic Reconnection," free. Room: NW17-218. Sponsor: Plasma Science and Fusion Center.

5:30 p.m. - 7:30 p.m. – "The Loudest Muttering is Over: Documents from the Atlas Group Archive." HTC Forum series event, free. Room: 3-133. Sponsor: History, Theory and Criticism of Architecture and Art.

6:00 p.m. – A World Gone Ape: Japanese Youth Consumers Fashion & The International Impact on Harajuku Cool. David Marx will discuss on the rise of Japanese youth consumer class and its effect on the Japanese and International culture. Zeroing in on the monolithic fashion brand, "A Bathing Ape" and the Ura-Harajuku Boom of 1990s, Marx will show how fashion brands worked to win fans by rejecting consumer-centered marketing techniques and creating their own style of business: hard-to-find stores, limited-edition goods, and no advertising. Registration: 6pm, Program: 6:30pm. free for MIT students, staff and faculty. Room: Bush Room (10-105). Sponsor: MIT Japan Program. The Japan Society of Boston.

7:00 p.m. - 12:30 a.m. – Anime Club showing: Rah-Xephon, Azumanga, NieA. Watch a selection of new and classic animation from Japan, as well as taking advantage of our extensive library of Japanese animation. Tonight: Rah-Xephon (an enigmatic, stylish exploration of the giant-robot theme), Azumanga Daioh (the wildly popular comedy about a set of high-school friends), NieA_7 — comic stories from the other side of the crater, from the creators of Serial Experiments: Lain. free. Room: 6-120. Sponsor: Anime Club, MIT.

7:00 p.m. – West Side Story. In this classic musical adaptation of Shakespeare's Romeo and Juliet, two street gangs in New York battle for territory and respect. A former leader of one gang falls in love with a girl from the other, and they struggle to overcome racism, hatred, and dishonor in order to be together. Music by Leonard Bernstein and lyrics by Stephen Sondheim, coming alive in well-known numbers including: "Officer Krupke," "Maria," "America," and "Tonight." New York Times critic Bosley Crowther wrote of it in 1961: "... a cinema masterpiece ... the music and dances that expand it are magnified as true sense-experiences." Stars Natalie Wood and Rita Moreno. \$3.00. Room: 26-100. Sponsor: LSC.

8:00 p.m. – MIT Symphony Orchestra Concert. Ludovic Morlot, guest conductor (<http://mit.edu/mta/www/music/resources/morlot.html>). Bruch's Concerto for Violin No. 1 (EECS grad student Amanda Wang, soloist, winner of the 2002 MITSO concerto competition); Dallapiccola's Piccola Musica Nottuma; Beethoven's Symphony No. 3 "Eroica." \$3 at the door. Room: Kresge Auditorium. Sponsor: MIT Symphony Orchestra (MITSO).

8:00 p.m. - 10:00 p.m. – "eXistenZ". Directed by David Cronenberg, Starring Jennifer Jason Leigh, Canada, 1999, 97mins. Allegra Geller, the leading game designer in the world, is testing her new virtual reality game, eXistenZ with a focus group. As they begin, she is attacked by a fanatic assassin employing a bizarre organic gun. She flees with a young marketing trainee, Ted Pikul, who is suddenly assigned as her bodyguard. Unfortunately, her pod, an organic gaming device that contains the only copy of the eXistenZ game program, is damaged. The events leading up to this, and the resulting game, lead the pair on a strange adventure where reality and their actions are impossible to determine from either their own or the game's perspective. free. Room: 7-431. Sponsor: History, Theory and Criticism of Architecture and Art.

9:00 p.m. - 1:00 a.m. – The Graduate Student Halloween Party. Come and join us at the official MIT Halloween party, which will be held at the Warehouse Apartments (NW30). There will be plenty of entertainment: DJ and dancing, pumpkin painting, face painting, food and soda, Cash bar run by the thirsty ear. Proper ID required for beverages. Costumes are encouraged. free. Room: Warehouse Apartments (NW30). Sponsor: Graduate Student Council, The Warehouse.

10:30 p.m. – West Side Story. \$3.00. Room: 26-100. Sponsor: LSC.

Saturday, October 26

7:00 a.m. - 2:00 p.m. – How The @&!*\$ Did they Do That? . Ever wonder how a company landed that big sale, moved

Events Calendar appears in each issue of *The Tech* and features events for members of the MIT community. *The Tech* makes no guarantees as to the accuracy of this information, and *The Tech* shall not be held liable for any losses, including, but not limited to, damages resulting from attendance of an event. Contact information for all events is available from the Events Calendar web page.

into that key market, never seemed to run out of cash, hired just the right people, and stayed successful in an unforgiving market? The MIT Enterprise Forum of Cambridge Fall Workshop will feature CEOs and companies that will share their experiences in taking on and overcoming hurdles and challenges, detailing both strategy and tactics. This is not theory, but practice, talked about by the individuals who are faced with creating value every single day. Please Visit Website for Prices. Room: The Newton Marriott. Sponsor: MIT Enterprise Forum of Cambridge, Inc. Ernst & Young, McDermott, Will & Emery.

1:00 p.m. – Men's & Women's Fencing Alumni Meet. free. Room: Fencing Room. Sponsor: Department of Athletics.

1:00 p.m. – Women's Soccer vs. Mount Holyoke College. free. Room: Steinbrenner Stadium. Sponsor: Department of Athletics.

6:00 p.m. - 8:00 p.m. – Sigma Sundae Soiree. Come enjoy ice cream sundaes with the lovely Sigma Kappa sisters at their beautiful brownstone in the heart of Boston's Kenmore Square. free. Room: Sigma Kappa House: 480 Commonwealth Ave. Sponsor: Sigma Kappa.

7:00 p.m. – Minority Report. In the not-too-distant future, crimes can be predicted using the gifts of three unusual people who are hooked to machines that read their psychic visions. An organization uses this method to prevent crimes before they happen, and arrest those who would have committed them. But is this a violation of human rights? A leader in the Department of Pre-Crime (Tom Cruise) is about to find out, when he is mysteriously pegged as the next one to commit a horrible murder. Written and directed by Steven Spielberg, with music by John Williams. Rated PG-13 for violence, brief language, some sexuality and drug content. \$3.00. Room: 26-100. Sponsor: LSC.

10:30 p.m. – Minority Report. Rated PG-13 for violence, brief language, some sexuality and drug content. \$3.00. Room: 26-100. Sponsor: LSC.

Sunday, October 27

9:30 a.m. - 11:00 a.m. – Buddhist Meditation and Prayers. Meditation in Buddhist Tradition: sitting and walking meditation followed by chanting. free. Room: Mezzanine Lounge, Student Center. Sponsor: Buddhist Community at MIT.

4:00 p.m. – Kathak Dance. Featuring Chitresh Das, solo and the Chitresh Das Dance Company; with Swapnamoy Banerjee, sarod; Kousic Sen, tabla. Presented by MITHAS (MIT Heritage of South Asia) in cooperation with Sangam and Chhandika. \$20, \$16—members, \$12—students. Room: Paine Hall (Music Building, North Yard, Harvard University). Sponsor: MITHAS.

7:00 p.m. – West Side Story. Stars Natalie Wood and Rita Moreno. \$3.00. Room: 26-100. Sponsor: LSC.

10:30 p.m. – Minority Report. Rated PG-13 for violence, brief language, some sexuality and drug content. \$3.00. Room: 26-100. Sponsor: LSC.

Monday, October 28

10:00 a.m. – Admissions Information Session. free. Room: Admissions Reception Center, Building 10, Room 10-100. Sponsor: Information Center.

10:45 a.m. – Campus Tour. free. Room: Lobby 7 (Main Entrance Lobby at 77 Massachusetts Ave). Sponsor: Information Center.

12:00 p.m. - 1:30 p.m. – "A U.S. Invasion and Occupation of Iraq: Concerns and Scenarios." Second in a series of events on Iraq sponsored by the CIS Starr Forum at MIT's Center for International Studies. A discussion between Daniel Byman, staff member of the House and Senate Intelligence Committee's inquiry on 9/11 and an Iraq and Middle East analyst at RAND; Herman Elits, former US Ambassador to Saudi Arabia and Egypt, and Professor Emeritus of International Relations at Boston University; and James Fallows, National Correspondent for the Atlantic Monthly and former editor of US News & World Report. free. Room: Wong Auditorium (Tang Center, Building E51). Sponsor: Center for International Studies.

2:00 p.m. – Admissions Information Session. free. Room: Admissions Reception Center, Building 10, Room 10-100. Sponsor: Information Center.

2:45 p.m. – Campus Tour. free. Room: Lobby 7 (Main Entrance Lobby at 77 Massachusetts Ave). Sponsor: Information Center.

3:00 p.m. - 7:00 p.m. – Rainbow Lounge Open. MIT's resource lounge for lesbian, bisexual, gay, and transgendered members of the community offers a place to hang out, various activities, and a lending library during its open hours. free. Room: 50-306. Sponsor: lbgt@MIT.

4:00 p.m. - 5:30 p.m. – "Geometrization of 3-manifolds." free. Room: 2-143. Sponsor: Differential Geometry Seminar. Department of Mathematics.

4:00 p.m. - 6:00 p.m. – Doing International Research After September 11th. STS Colloquium. free. Room: E51-095. Sponsor: STS.

4:00 p.m. - 5:00 p.m. – Mechanics Seminar: "High-Order Accurate Computational Methods for Micro Optics." The modeling and design of diffraction dominated micro optics continues to challenge existing computational methods. This can be traced to a number of issues, e.g., high phase sensitivity, large electric, yet finite, size and significant geometric complexity. The significant current interest in integrated optics and MOEMS suggests that the development of new computational tools are timely and required. Motivated by a few examples, we shall discuss some of the difficulties associated with the modeling of micro optics in a bit more detail. This work is done in collaboration with Palle Dinesen, Kaleido Technology, Denmark, and Lucas Wilcox, Brown University. Room: 3-370. Sponsor: Mechanical Engineering Dept.

4:15 p.m. - 5:15 p.m. – A Beautiful Mind: Genius, Madness, Reawakening. free. Room: Room 10-250. Sponsor: Applied Mathematics Colloquium. Department of Mathematics.

9:00 p.m. - 1:00 a.m. – Monday Night Football at The Ear. Watch the game on The Thirsty Ear's big screen TV every Monday night. Tonight: New York Giants vs. Philadelphia. Hours: Monday: 9 p.m. - 1 a.m. Tuesday - Thursday: 7 p.m. - 1 a.m. Friday: 4 p.m. - 1 a.m. The Thirsty Ear Pub is located in the basement of Ashdown House. Enter through the courtyard. Must be over 21. Proper ID required. Free. Room: The Thirsty Ear Pub. Sponsor: The Thirsty Ear Pub.

Ask Arista

Ask Arista is a humorous advice column written anonymously by an MIT student. The identities of all parties are private.

Dear Arista,
In this modern, equal society, should a guy still pay for a girl on a date?
—Penniless Playboy

Dear Penniless,
Wait, society is equal? Though I'd love to argue with you on this, it is entirely beside the point. If you feel uncomfortable or unwilling to pay for your date, then don't. It will send her a clear message that you view her as a powerful, respected equal with as much ability to provide financial security as yourself. Plus, it will give the real gentlemen of the world an advantage in wooing the most desirable women for themselves.

Seriously, why wouldn't you want to pay for your date? Most guys on dates are out to impress the person they're with, and believe me, picking up the check will almost certainly win you points here. Girls want to be respected, true, but that doesn't mean you can't be chivalrous. If your wallet is hurting from all your gallantry, try some low-budget dating activities.

A long, moonlit walk along the river is free, and quite effective, judging from all the public displays of affection one sees on the shores of the Chuck. Cook and serve her a candlelit dinner for two, hang out with microwave popcorn and a movie, or give her a massage. Obviously, some of these suggestions work better once you've gotten to know the person, but let her and your preferences be your guide. At the very least, she will appreciate your thoughtfulness.

Good luck,
—Arista K.

Dear Arista,
Do you know any good pick up lines?
—Ray and Silent Slob

Dear R.S.S.,
Yeah. "Here, let me get that for you."
Peace,
—Arista K.

Dear Arista,
I'm writing up my resume now, in the hopes of getting a summer internship. How can I make my previous experiences sound impressive to employers?
—Jobless Junior

Dear Jobless,
Resume-writing is an art. Like all artists, you must approach the task with the correct mindset. First, no matter how badly MIT may have beaten your ego to a pulp, you must present yourself as though you consider yourself as competent, nay, as brilliant, as any other job applicant, if not more so. If you write your resume with confidence, it will show through in the printed word, grab the recruiter by the shirt collar, and say, "Hire me, I'm spectacular!" If you use the right action verbs, it may even wipe the spittle off the recruiter's glasses after doing so.

I'm not saying you should be an egomaniac, but I think MIT students, on the whole, are a humble bunch who tend to undersell themselves. Be aggressive, yet friendly, and emphasize your strengths. Look at sample resumes for ideas on wording. Both the MIT Career Center and Jobtrak have online resources to help people write their resumes. If you want to hear from people whose opinions actually count, MIT is having an Employer Resume Critique Week next week, Oct. 28 to Nov. 1. Information can be found online at <http://web.mit.edu/career/www/Ercw.htm>. Happy hunting!

Signing out,
—Arista K.

Do you have a question you're dying to ask Arista? E-mail your question to AristaK@mit.edu, and it could appear in the next installment of "Ask Arista!"

FEATURES

Campus Profile —Maryanne Kirkbride

Kirkbride settles in to new position as MIT Medical's Clinical Director for Campus Life

By Brian Loux
NEWS EDITOR

In August, Maryanne Kirkbride began her job as the MIT Medical Department's new Clinical Director for Campus Life. This position was newly created this year. As Clinical Director for Campus Life, Kirkbride acts as a liaison between MIT Medical and students, faculty, staff and administrators within the MIT community. She is also in charge of MIT Medical's Health Education Service.

The Tech: What degrees do you hold?

Maryanne Kirkbride: Well, I have a bachelor's degree in Mechanical Engineering. I am also a registered nurse. I have a combined MBA and a Masters of nursing.

TT: You used to work at the Dorchester Community Health Center. How did you find Dorchester?

Kirkbride: It is big. If it wasn't part of Boston, it'd be the third largest city in Massachusetts. So it's diverse and full of hardworking creative people from 50 to 60 different countries. It is very similar to here, in that it there are many small communities inside a large one.

TT: Have you always been in Boston?

Kirkbride: I was born in West Medford, but grew up in New Jersey.

TT: What are some of the differences between managing the community health of a city and managing that of a campus?

Kirkbride: MIT is a much more complicated community. There are other differences. I think the asset of having the students is one. In low income neighborhoods, my assistants didn't have the resources, and I had to do most of the leg work. Now they can do it. Plus the intellectual stimulation is wonderful.

TT: What was the oddest medical call you've had?

Kirkbride: [At the Dorchester Community Health Center], we had a guy who came in with a pet iguana on his shoulder and refused to leave. He was something of a repeat customer. I recently heard that his iguana died.

When I was at Boston City Hospital, now Boston Medical Center, it was during the vicious gang wars that Boston had. We often had rival gang members in beds next to each other, and we had quite a bit of trouble when their friends came in. I guess that's not an odd

story, but an interesting one

TT: What do you see as the most important problem that MIT Medical must address?

Kirkbride: In the next year, that would be improving the credibility that MIT Medical has. Students need to trust the medical department.

TT: What do you think MIT sees as the most important problem MIT Medical must address?

Kirkbride: I think that they think we are moving in the right direction to become more integrated and having a plan that puts students first.

TT: How have your first two months been?

Kirkbride: Exciting and challenging. Everyone has been very welcoming, and it was a well planned position from which I've been able to make progress.

TT: Has your role become more defined in the past two months?

Kirkbride: I hope so. It is defined inside MIT Medical. People will contact me about campus life. I'm working on a process of teaming with student leaders so people know to call me. I'm also working on getting stu-

dents face time with staff.

TT: So how often do you get out of your office in the Health Education Department?

Kirkbride: Every day. I've been to UA and GSC meetings, [dorm and student group events], etc. I still want to go to every living group at MIT. I want students to see me as a resource. I'm available on Mondays and Wednesdays to talk to groups.

TT: With the weight of the requirements of the mental health task force, do you find your job stressful?

Kirkbride: I take my stewardship role very seriously. I'm not scared... [but] I believe lives are at stake in the decisions that we make.

TT: Has MIT put you in charge of the student ambulance service?

Kirkbride: Yes. I'm the medical liaison. This is a pilot program, so the police still hold the EMT license. We're working to deliver the license to us. [The students] are professional and well prepared.

TT: What is your favorite ice cream flavor?

Kirkbride: Ben and Jerry's Chocolate Chip Cookie Dough. I know it's the world's most popular flavor, but it's pretty good.

Gadget Review

Olympia Soundbug not a sound investment

By Kailas Narendran
STAFF WRITER

When is a speaker not a speaker? If you answered "When it's an orator," you're wrong. The answer is "When it's the Olympia Soundbug." This new device from Wave Industries uses a high bandwidth, linear actuator straight out of Iowa to convert any hard, smooth surface into a sounding board.

The heart of the technology is a material called Terfenol-D. This material seems to be similar to piezoelectric elements.

When it is placed in an appropriate mechanical housing, electrical signals are transduced to low displacement, high force movement. This actuator is used to replace the voice coil found in a traditional speaker.

The Olympia Soundbug departs from the standard speaker model at this point. This linear motion, rather than driving a speaker cone, is used to vibrate a suction cup attached to it. Rather than listening to the sound out of a single cone source, the device vibrates the surface it is attached to, radiating sound.

Trying out the Soundbug

When I first got my Olympia Soundbug, I immediately hooked up the device to my laptop and tried playing music. I stuck the Soundbug on a window (as pictured in the advertisements). I was impressed with how bad the music sounded.

Using the device on the double pane windows in my apartment resulted in weird artifacts such as echoes and strange resonances. Right off the bat I was very unimpressed with the performance of the device.

Next I tried my metal toolbox. The sound was a little better, but the resonance problem was still really bad. I went around sticking the Soundbug on everything from a lava lamp to a TV (very trippy). In almost all cases, the sound was of poor quality because of the properties of what I stuck the unit on.

Finally, I stuck it onto the kitchen cabinet. Amazingly enough, the sound was somewhat decent. After trying a lot of surfaces, it seems that wood (or probably any other dense surface) works best. The bandwidth of the device (8kHz) seemed to be eclipsed by the acoustical properties of the material it was placed on.

Product not so hot

When I played music through the device, I noticed some fuzz on the higher frequency sections. This generally didn't make a difference in my musical selections (they have a fair amount of distortion, etc.), but you should definitely take that into account before opening your wallet for this product. The suction cup is good quality and has a locking mechanism, but once it got a bit dirty, listening ses-

sions turned into drop tests (where the device performed pretty well). Those problems could easily be solved with a bit of cleaning. On top everything, the battery life is pretty bad.

The device is about the size of a small flip top cell phone. The majority of the volume seems to be consumed by the batteries. One nice feature is that it automatically powers down if there is no signal coming in, helping to conserve battery life.

When do you use it?

Regardless of these good intentions, spending about 10 percent of the cost of this device every four hours is pretty ridiculous. I understand portability is a desired aspect of the device, but I don't think the option of external power should have been eliminated entirely. If this device had an AC option, I could see sticking it, say, under a desk and having a totally hidden music source.

That brings me to the next question: when do you use it?

My first thought was to use the device as speakers for my laptop. The quality of sound, however, is slightly better through my laptop speakers, so that doesn't really work (and why carry around more stuff with a laptop?).

Given an appropriate surface, the Soundbug could be useful in a presentation scenario when you need more volume than the laptop speakers can produce. It could also be used in a similar situation with music from a portable device such as a Walkman, etc.

The bottom line is that what you attach this device to is critical to what you get out (not a surprise), and the battery life is marginal.

Limited compatible surfaces

Unfortunately, I found that only a few surfaces actually produce sound of any reasonable quality. This is not to say that the device wouldn't be of any use to you, but you should realize that sticking it on a window (as would be everyone's first thought) doesn't work as well as you might hope. And while the battery life isn't horrible, it could definitely use some work or other options from the manufacturer.

I could see this device as definitely having a use for someone that needs to play radio quality music for small to medium sized groups and can't lug around speakers with enclosures, etc. If you get this device and plan to use it for something other than a paperweight, you should definitely invest in some rechargeable batteries.

This product is still new, and I believe the company still has a bit of fine tuning to do. You can find more information at <http://www.soundbug-us.com>. It's available for \$50 from the aforementioned Web site, or through the merchants listed.

Enjoy Fall in New England

Take One of These Day Trips

School work and cold weather getting you down? Take a well-deserved day off from homework and enjoy the beauty of fall in New England with a day trip. Even if you don't have a car, most of the following destinations are easily accessible by the subway and commuter rail. For train schedules and directions, visit <http://www.mbtta.com>.

Witch Museum in Salem, MA

With Halloween around the corner, no other city around is more bustling than Salem. The site of the infamous 1692 witch trials, this historic coastal city offers many seasonal attractions and events. For more information, visit <http://www.salemweb.com>.

Plymouth Rock in Plymouth, MA

Feeling patriotic? See where it all began and feel what it was like for early settlers to be fresh off the boat at Plymouth Rock. The state park offers a view of Plymouth harbor with the Mayflower II (a replica of the original) docked at the shore. There are also other attractions nearby, like Plimoth Plantation, where time is turned back to colonial days. For more information, visit <http://pilgrims.net/plymouth/> and <http://www.state.ma.us/dem/parks/plgm.htm>.

Walden Pond in Concord, MA

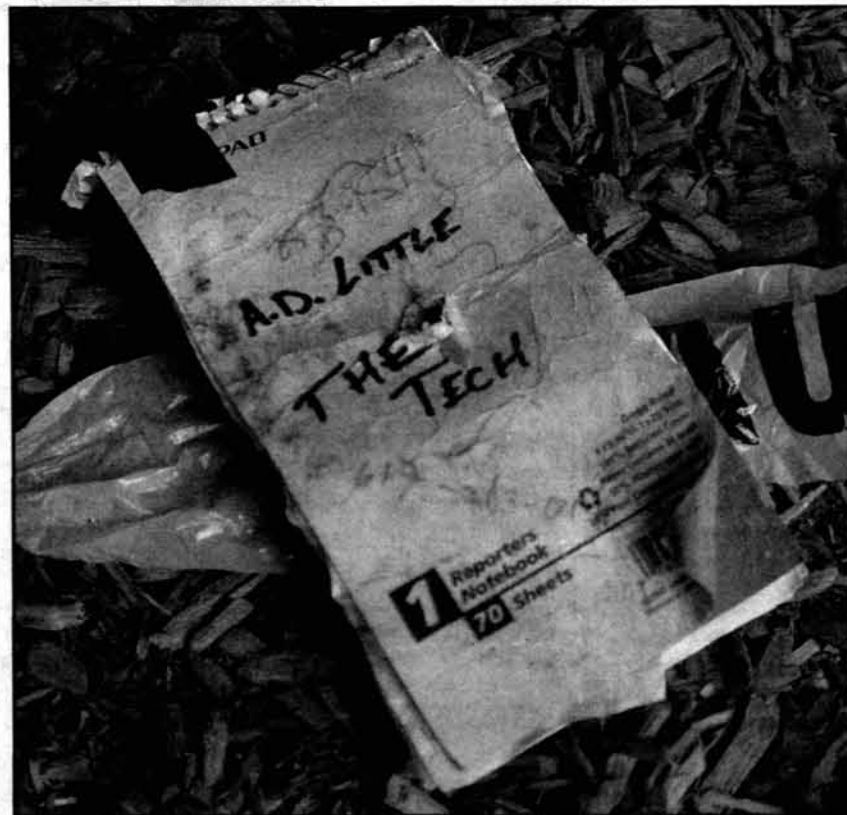
Throw your graphing calculator out the window and get back to nature at the location that inspired Robert Thoreau's classic literary masterpiece Walden. For more information, visit: <http://nanosft.com/walden/index.html> and <http://www.state.ma.us/dem/parks/wldn.htm>

Cape Anne in Gloucester, MA

Take a (chilly) walk on the beach, go on a whale watch, or go camping at Cape Anne Campsite within walking distance of the commuter rail station. Be sure to dress warmly, though! For more information, visit: <http://www.cape-ann.com>.

This information was compiled by Eun J. Lee.

Combat Tested.



<join@the-tech.mit.edu>

NIGHTLINE
def-tuv-tuv-oper-oper

THE ARTS

Clubs

Axis

13 Lansdowne St., 617-262-2437
Sundays: See Avalon below.
Mondays: *Static*. Gay, casual dress. \$5, 18+.
Thursdays: *Chrome/Skybar*. Progressive house, soul, disco; dress code \$10, 19+; \$8, 21+.
Fridays: *Avalandx*, with Avalon.
Saturdays: *X-night* (rock, alternative, techno, hip-hop) downstairs and Move (techno) upstairs.

Avalon

15 Lansdowne St., 617-262-2424
Sundays: *Gay Night* (with Axis on long weekends). Featuring hardcore house and techno. \$10, 21+.
Thursdays: *International Night*. Euro-house. \$10, 19+.
Fridays: *Avalandx*, with Axis. House. \$15, 19+.
Saturdays: *Downtown*. Modern house, club classics, and Top 40 hits. \$15, 21+.

Karma Club

9 Lansdowne St., 617-421-9595
Sundays: "Current dance favorites" by guest DJs. Cover varies.
Tuesdays: *Phatt Tuesdays*. With Bill's Bar, modern dance music. \$10.
Wednesdays: *STP*. Gay-friendly, house. \$15, 21+.
Thursdays: *Groove Factor*. House.
Fridays: *Spin cycle*. Prog. house. 19+.
Saturdays: *Elements of Life*. International House. \$15.

ManRay

21 Brookline St., Cambridge, 617-864-0400
Wednesdays: *Curses*. Goth. Appropriate dress required. \$5, 19+; \$3, 21+.
Thursdays: *Campus*. Popular tunes, House, Gay, casual dress. \$10, 19+; \$8, 21+.
Fridays: *Fantasy Factory* (First and third Friday of the month. Features kinky fetishes and industrial music.) *Hell Night* (every second Friday.) 19+. Includes Goth music. *Ooze* (the last Friday of the month.) \$10, 21+. Reduced prices for those wearing fetish gear.
Saturdays: *Liquid*. Disco/house and New Wave. \$15, 19+; \$10, 21+.

Popular Music

Axis

13 Lansdowne St., Boston, MA. 617-262-2437

Oct. 25: Big D and the Kids Table
Oct. 26: Snapcase, Boy Sets Fire
Oct. 30: Cali Comm 2002 Tour: Del the Funky Homosapien
Nov. 2: Nonpoint
Nov. 3: Relient K
Nov. 12: Kottonmouth Kings, Mix Mob
Nov. 14: Theivery Corporation
Nov. 15: Saliva
Nov. 19: The Ataris, Sugarcult

Avalon

15 Lansdowne St., Boston, MA. 617-262-2424

Oct. 25: Violent Femmes
Oct. 27: Shedaisy
Nov. 3: Sigur Ros, Amina
Nov. 5: Jerry Cantrell
Nov. 13: Les Claypool Frog Brigade
Nov. 16: Cowboy Mouth
Nov. 20: Sevendust, 30 Seconds to Mars, Cinder
Nov. 21: Blondie
Nov. 22: Ani DiFranco
Nov. 23: Beenie Man
Nov. 27: Frank Black and the Catholics, The Bennies
Dec. 2: The Wallflowers, Ours
Dec. 6: Melissa Ferrick, Pamela Means

Berklee Performance Center

Berklee College of Music, 1140 Boylston St., Boston, MA.
Free student recitals and faculty concerts, 4 p.m. and 7 p.m. some weekdays. For info on these concerts, call the Performance Information Line at 617-266-2261.

Oct. 25: Herbie Hancock
Nov. 20: Branford Marsalis
Dec. 13: Charlie Haden

Bill's Bar

617-421-9678

Oct. 25: Redletter, Loveless
Oct. 28: The Juggers, No Luck at All
Oct. 30: Scarrie's Birthday Bash
Oct. 31: Stymie
Nov. 4: Panda Squad, Roxie
Nov. 6: The Tourist
Nov. 11: Purity's Failure
Nov. 14: God Boxer
Nov. 15: Led Zep II, All the Queen's Men, Dresden Dolls
Nov. 21: Kingsize

On The Town

A weekly guide to the arts in Boston

October 25 – 31

Compiled by Devdoot Majumdar

Send submissions to ott@the-tech.mit.edu or by interdepartmental mail to "On The Town," The Tech, W20-483.

Club Passim

47 Palmer St., Cambridge, MA. 617-492-7679

Tuesdays: Open Mic at 8 p.m. (sign up at 7:30). \$5. See <<http://www.clubpassim.com>> for complete schedule

Oct. 25: Paul Rishell, Annie Raines
Oct. 26: Don White, Kenny White
Oct. 27: Hanneke Cassel
Oct. 28: Bob Dylan Tribute
Oct. 30: Kelly Donovan & Dancers: "Changing Skin"
Oct. 31: Andrew Kerr
Nov. 1: Carrie Newcomer
Nov. 2: Valerie & Walter Crockett
Nov. 3: Mary McCaslin
Nov. 7: Maria Sangiolo
Nov. 8: David Mallett
Nov. 9: Tish Hinojosa
Nov. 15: Deb Talan
Dec. 5: Stephen Kellogg
Dec. 7: Sam Shaber
Dec. 11: Rose Polenzani
Dec. 14: Jim's Big Ego

FleetCenter

One FleetCenter, Boston, MA. 617-931-2787

Oct. 27: Monster Jam 2002: P.Diddy, Eve, Jay Z, Ludacris, Nappy Roots
Oct. 28: Rush
Nov. 3: Cher, Cyndi Lauper
Nov. 16: Bob Dylan
Nov. 18-19: The Other Ones, Robert Hunter
Nov. 25: Peter Gabriel
Nov. 30: Shakira
Dec. 2: Guns N' Roses
Dec. 14: Tom Petty and the Heartbreakers
Dec. 15: Julie Andrews, Christopher Plummer
Jan. 12: The Rolling Stones

The Middle East

Central Square, 617-354-8238

Ticketmaster: 617-931-2787.

Venue has two floors. Upsairs (U), Downstairs (D)

<<http://www.mideastclub.com>>

Oct. 25: Atmosphere
Oct. 26: Antibalas Afrobeat Orchestra
Oct. 27: Collapse Into Reason, Incus, One of Us
Oct. 28: Mia Doi Todd
Oct. 29: Keelhaul, Five
Oct. 30: Von Bondies, The Kills, Secret Channel
Oct. 31-Nov. 2: Reverend Horton Heat (nightly genre varies)
Nov. 3: The Red Elvises, Tyler Street
Nov. 4: Factory Night
Nov. 5: Rasputina, Reverend Glass-eye, Fluttr
Nov. 6: Pinetop Seven (U)
Nov. 7: The Donnas, Your Enemies Friends
Nov. 8: Lali Puna, Opiate
Nov. 9: Quintaine America
Nov. 10: Sorry Charlier
Nov. 11: Thalia Zedek (Free)
Nov. 14: Luna
Nov. 15: Cinematic Orchestra
Nov. 16: Leningrad
Nov. 17: My Life
Nov. 21: Flickerstick
Nov. 24: Planet X

Orpheum Theatre

1 Hamilton Pl., Boston, MA. 617-679-0810

Oct. 25: Shedaisy
Oct. 28: Beck & The Flaming Lips
Oct. 31: Alice Cooper
Nov. 1: The Disco Biscuits
Nov. 9: Jim Norton
Nov. 11: Joe Cocker
Nov. 14: Jack Johnson (sold out)
Dec. 5: Gusto
Dec. 6: Martin Sexton
Dec. 14: Jon Stewart

GIRLIE ACTION PR**MEXICO CAN F*CKING WAIT**

Twice they've come to Boston — once with **Nada Surf** and once with **Superchunk** — and again, the ever popular **L.A. indie rock band Rilo Kiley** returns, this time touring with local fave **Megan Toohey** and her band, the **So and So's**.

Big in the West, Rilo Kiley seems to excel in bringing fresh, upbeat and endearing melodies with charmingly witty lyrics to their music. They will be playing at **TT The Bear's** this Saturday, Oct. 26, and tickets are \$10. For more information, consult <<http://www.ttthebears.com>>.

**Paradise Rock Club**

967 Commonwealth Ave., Boston, MA. 617-562-8804

Oct. 25-26: Addison Groove Project
Oct. 27: Brad
Oct. 28: "Live Phish Official CD Release Party"
Oct. 29: Calexico
Oct. 30: Strangefolk
Oct. 31: Lifoween, Mr. Lif
Nov. 1: Yohimbe Brothers
Nov. 2: Ben Kweller
Nov. 3: Porcupine Tree
Nov. 4: The Soundtrack of Our Lives, Cato Salsa Experience
Nov. 5: Particle
Nov. 6: Virginia Coalition
Nov. 7: Jump Little Children, Carbon Leaf
Nov. 8: Lamb Chop
Nov. 9: Amon Tobin
Nov. 10: Fountains of Wayne, OK GO
Nov. 12: Ozomatli
Nov. 14: Luciano
Nov. 15: Rhett Miller
Nov. 16: The Blasters
Nov. 17: The Samples
Nov. 19: Josh Joplin, Peter Stuart
Nov. 21: John Brown's Body
Nov. 29: Deep Banana Blackout
Nov. 30: The Push Stars

The Roxy

279 Tremont St., Boston, MA. 617-931-2000

Oct. 28: Flogging Molly, Andrew WK
Nov. 17: Galactic, North Mississippi Allstars

Tsongas Arena

300 Arcand Dr., Lowell, MA. 978-848-6900.

Oct. 28: Tool, Meshuggah
Oct. 29: Mana
Nov. 15: Counting Crows, Uncle Kracker
Nov. 19: Tori Amos, Howie Day
Nov. 29: JoDee Messina
Dec. 11: KISS 108 Jingle Ball with Nelly, Kylie Minogue, O-Town, Destiny's Child

TT The Bear's

10 Brookline St., Cambridge, MA. 617-931-2000.
<<http://www.ttthebears.com>>

Oct. 25: Immortal Lee County Killers, Modey Lemon
Oct. 26: The So and So's (Megan Toohey), Rilo Kiley, Arlo
Oct. 27: Explosions in the Sky
Oct. 28: From Russia - Chizh Fest
Oct. 29: Sing-Sing, Venus Hum
Oct. 30: Bob Mould, Chris Brokaw
Oct. 31: The Music (UK)

Blues

Nov. 19: Pierre Hurel Trio
Nov. 20: Natraj
Nov. 21: Sherman Irby trio
Nov. 22: Luciana Souza, Romero Lubambo
Nov. 23: Donna Byrne Quintet
Dec. 26-29: Chick Corea New Trio

Ryles Jazz Club

212 Hampshire St., Cambridge, MA. 617-876-9330
Venue has two floors. Upsairs (U), Downstairs (D)
<<http://rylesjazz.com>>

Oct. 26: Flava Orchestra
Oct. 27: Amazon Poetry Slam
Oct. 29: Bruce Bartlett Trio
Oct. 30: Marta Gomez
Oct. 31: Brian Kelley's Social Lubrication (D), Temporada Latina (U)
Nov. 1: Rick DellaRatta Trio
Nov. 2: John Payne Battle of the Student Bands
Nov. 3: Los Changos
Nov. 6: Greg Hopkins Quintet
Nov. 7: Black Sea Salsa Band

Scullers Jazz Club

DoubleTree Guest Suites, 400 Soldiers Field Rd., Boston, 617-562-4111.<<http://www.scullerjazz.com>>. Call for schedule.

Oct. 25-26: Oleta Adams
Oct. 29-30: Rick Braun, Kirk Whalum
Oct. 31 - Nov. 1: Nicholas Payton Quintet
Nov. 5: Norman Hedman's Tropique
Nov. 6: Karrin Allyson
Nov. 7: Patti Austin
Nov. 8: Jeff Stout/Debby Larkin
Nov. 12: John Payne Sax Choir
Nov. 13: Giana
Nov. 15: Ryles Jazz Orchestra
Nov. 21: Hillary Noble
Nov. 23: Ken Clark Organ Trio

Classical Music

Boston Symphony Orchestra

Tickets: 617-266-1492.
Performances at Symphony Hall, 301 Massachusetts Ave., Boston, unless otherwise noted. Student rush tickets, if available, can be obtained at 5 p.m. on the day of the concert (one ticket per person). <<http://www.bso.org>>

André Previn guest conducts the BSO in Haydn's *Symphony No. 103*, Mozart's *Sinfonia Concertante*, and Beethoven's *Symphony No. 7*. Performances on Oct. 24 (10:30 a.m., 8 p.m.), Oct. 25 (8 p.m.), Oct. 29 (8 p.m.). Special concert with Anne Sophie Mutter presenting Beethoven's *Symphony No. 7* and Previn's *Violin Concerto* on Oct. 26 (8 p.m.).

Previn rounds up his time with the BSO with pianist Jean-Yves Thibaudet. The program includes Copland's *Suite from Appalachian Spring*, Ravel's *Piano Concerto in D*, and Shostakovich's *Symphony No. 6*. Performances are Oct. 30 (7:30 p.m.), Oct. 31 (8 p.m.), Nov. 1 (1:30 p.m.) and Nov. 2 (8 p.m.).

College Card honored Wednesday, Oct. 30 (7:30 p.m., rehearsal).

Fleetboston Celebrity Series

20 Park Plaza, Suite 1032, Boston, MA 02116. 617-482-2595. Venues vary by concert, consult website for further details, <<http://www.celebrityseries.org>>

Oct. 25-27: Paul Taylor Dance Co.
Nov. 9: Julliard String Quartet
Nov. 10: Boston Camerata
Nov. 14: American Ballet Theatre
Nov. 17: Pittsburgh Symphony Orchestra, Masiss Jansons
Nov. 22: Robert Kapilow, Juith Blazer: What Makes it Great?
Nov. 24: Itzhak Perlman
Dec. 1: Daniel Barenboim
Dec. 6-7: Vienna Choir Boys
Dec. 14: The Polar Express

Theater

Bat Boy: The Musical (Oct. 26)

A story about "the alleged discovery of a child — half man, half bat — in a West Virginia cave" finally comes to Boston in this production by the SpeakEasy Stage Company. Boston Center for the Arts, 539 Tremont Street, Boston, 617-426-2787. Runs through Oct. 26, tickets range from \$15 rush (one hour before performance) to \$31.

The Gig (Nov. 16)

BU grad and Boston producer Stewar Lane brings this musical to the Lyrics Stage Company of Boston. When a bunch of folks from different backgrounds "get a two-week gig in the Catskills, they shed their ordinary lives and begin an adventure that reveals truths about friendship, the joy of music, and the importance of dreams." Lyric Stage Company, 140 Clarendon St., Boston. For more information, call 617-437-7172, tickets \$22-38.

Hedwig and the Angry Inch (Oct. 31)

Oh yes, the movie of international renown has it the stage with flying colors. Playing at the Institute of Contemporary Art through Oct. 31. Curtain at 8 p.m., tickets \$20. 617-423-NEXT.

Marty (Nov. 24)

A "touching, exuberant new musical" based on the Academy Award-winning film, *Marty*. The latest production from the reputed Huntington Theatre Company, *Marty* is the story of a guy who's having a bit of trouble finding love. An added bonus, though, is the guy searching is John C. Reilly, who made a name for himself through his roles in *Boogie Nights*, *Magnolia*, and *The Thin Red Line*. At the BU Theatre, 264 Huntington Ave, Boston. For more information, call 617-266-0800, tickets \$12-67.

Medea (Oct. 27)

Dublin's Abbey Theatre presents the epic tragedy that is Euripides' *Medea*. Presented by Broadway in Boston at the Wilbur Theatre. Tickets range from \$47 - \$67.

Our Town (Nov. 17)

Boston Theatre Works presents Thornton Wilder's Pulitzer Prize Winning play about "birth, love, marriage, and death in early 20th century New England." Playing at the Tremont Theatre, 276 Tremont Street, Boston. For more information, call 617-939-9939, tickets \$20 (students) - \$25.

Smelling a Rat (Nov. 10)

Nora Theatre Company premieres Mike Leigh's 1999 play. At the Boston Playwright's Theatre, 949 Commonwealth Ave, Boston. For more information, call 617-491-2026, tickets \$25. "Pay what you can at the Oct. 26 Matinee and Oct. 31 evening performance."

Spinning into Butter (Oct. 19)

A racist incident on a Vermont campus sends the all white faculty into a tailspin. Presented at the Theatre Cooperative, 277 Broadway, Somerville. 617-625-1300. Tickets \$15 to \$20.

Blue Man Group (Ongoing)

Charles Playhouse, 74 Warrenton Street, Boston, indefinitely. Curtain is at 8 p.m. on Wednesday and

Thursday, at 7 and 10 p.m. on Friday and Saturday, and at 3 and 6 p.m. on Sunday. Tickets \$35 to \$45. Call 617-426-6912 for tickets and information on how to see the show for free by ushering.

Comedy Connection

Mon.-Wed. at 8 p.m.; Thurs. 8:30 p.m.; Fri. and Sat. 8 p.m., 10:15 p.m.; Sun. 7 p.m. The oldest comedy club in Boston. At 245 Quincy Market Place, Faneuil Hall, Upper Rotunda, Boston. Admission \$8-20. Call 617-248-9700 or visit <<http://www.comedyconnection-boston.com>>.
Oct. 25-26: Elayne Boosler
Oct. 26-27: Arnez J.
Nov. 1-2 Brian Dunkleman
Nov. 8: John Valby
Nov. 15-16: Robert Schimmel

Exhibits

Isabella Stewart Gardner Museum

280 The Fenway, Boston. (617-566-1401), Tues.-Sun. 11 a.m.-5 p.m. Admission \$10 (\$11 on weekends), \$7 for seniors, \$5 for students with ID (\$3 on Wed.), free for children under 18. The museum, built in the style of a 15th-century Venetian palace, houses more than 2,500 art objects, with emphasis on Italian Renaissance and 17th-century Dutch works. Among the highlights are works by Rembrandt, Botticelli, Raphael, Titian, and Whistler. Guided tours given Fridays at 2:30 p.m.

Museum of Fine Arts

465 Huntington Ave., Boston. (617-267-9300), Mon.-Tues., 10 a.m.-4:45 p.m.; Wed., 10 a.m.-9:45 p.m.; Thurs.-Fri., 10 a.m.-5 p.m.; Sat.-Sun., 10 a.m.-5:45 p.m. West Wing open Thurs.-Fri. until 9:45 p.m. Admission free with MIT ID. Currently on exhibit until Oct. 20 is "Jasper Johns to Jeff Koons: Four Decades of Art from the Broad Collections," an exploration of contemporary artists ranging from those named above to Warhol to Lichtenstein.

MFA Film Showings:

Oct. 25: *Siddhartha* (6 p.m.), World's Best TV Ads: *British Advertising Films of 2001* (8 p.m.)
Oct. 26: *Siddhartha* (11 a.m.), World's Best TV Ads: *British Advertising Films of 2001* (1 p.m.), *Sadko* (3:15 p.m.), *Sneak Preview: Frida* (7 p.m.)
Oct. 27: Director Dylan Kidd with *Roger Dodger* (7 p.m.)
Oct. 31: *British Advertising* (6 p.m.), Films by Ptushko Viy (8 p.m.)
Nov. 1: *British Advertising* (6 p.m.), Films from Iran: *I am Taraneh*, 15 (8 p.m.)
Nov. 2: *British...* (11 a.m.), Films from Iran: *Yad-o-yadegar* (12:45 p.m.), Films from Iran: *Iranian Spread* (2:30 p.m.)
Nov. 3: Friend of Sneak Preview: *Far From Heaven* (6:30 p.m.)
Nov. 7: New England Film Artists: *Occupation* (5:30 p.m.), Boston Jewish Film Festival: *God is Great, I'm Not* (7:30 p.m.)



BROOKLYN PRODUCTIONS

BOOSLER IN BOSTON

Comedienne Elayne Boosler comes to the Comedy Connection this weekend. Boosler brings to the stage a good two decades of stand-up, seven cable specials, and a long history of writing everything witty that Barbara Streisand ever said, pretty much. She'll be at the Comedy Connection in Faneuil Hall on Friday (10:15 p.m., \$25) and Saturday (8 p.m., \$29) night.

Nov. 8: Films from Iran: *The Legend of Love* (5:45 p.m.), Films from Iran: *A House Built on Water* (7:30 p.m.)

For further listings, check <<http://www.mfa.org/film/>>

Museum of Science

Science Park, Boston. (617-723-2500), Daily, 9 a.m.-5 p.m.; Fri., 9 a.m.-9 p.m.; Sat.-Sun., 9 a.m.-5 p.m. Admission free with MIT ID, otherwise \$9, \$7 for children 3-14 and seniors. The Museum features the theater of electricity (with indoor thunder-and-lightning shows daily) and more than 600 hands-on exhibits. Admission to Omni, laser, and planetarium shows is \$7.50, \$5.50 for children and seniors.

Other

Harvard Film Archive

465 Huntington Ave., Boston. (617-267-9300), Mon.-Tues., 10 a.m.-4:45 p.m.; check <<http://www.harvardfilmarchive.org>> for more details.

Films of Gaston Kabore will be shown at the HFA. Kabore, recipient of the Genevieve Mcmillan and Reba Steward Fellowship for Distinguished Filmmaking, is a teacher at the Institut Africain d'E-

tudes Cinematographiques. He is known for his amalgam of unique storytelling and cinematic language:

A Tree Called Karite and *Went Kuuni* (God's Gift), Oct. 25 (7 p.m.), Oct. 26 (9 p.m.)
Madame Hado and *Zan Boko* (Homeland), Oct. 25 (9 p.m.), Oct. 29 (9:15 p.m.)
Roger, Civil Servant and *Rabi and Chronicle of a Declared Failure*, Oct. 26 (7 p.m.)
The Cora Player and *Buud Yam*, Oct. 27 (7 p.m.), Oct. 30 (9:15 p.m.)

M by Fritz Lang (1931, German with English Subtitles), October 2, 7 p.m.

The Emperor of California (1936, German with English subtitles). Directed by Luis Trenker — a film originally banned both by the Americans and Russians after World War II. The film is "an allegory about a European revolutionary who flees to America in 1834, where he becomes the leader of an immigrant community and later gains power as a US senator and army general before he is finally brought down. Screens October 28 (9 p.m.)

Oct. 29: *Bashu* (7 p.m.), *Madame Hado* and *Zan Boko* (9:15 p.m.)
Oct. 30: *The Eye above the Well* (7 p.m.), *The Cora Player* (9 p.m.), *Buud Yam* (9 p.m.)
Oct. 31: *Rosemary's Baby* (7 p.m.)



MIRO VINTONIV

PREVIN, AND MORE MUTTER

André Previn embarks on the first of two weeks with the Boston Symphony Orchestra this week. He leads the BSO in Haydn's *Symphony No. 103*, Mozart's *Sinfonia Concertante*, and Beethoven's *Symphony No. 7*. This was performed yesterday and will be performed again today at 8 p.m. and Monday at 8 p.m.

On Saturday, Previn will be joined by violinist (and wife) Anne Sophie Mutter for Beethoven's *Symphony No. 7* and a rendition of his own *Violin Concerto* at 8 p.m. No College Card concerts coincide with this set of performances; however, you can always pay the \$25 to \$51. For more information, consult <<http://www.bso.org>>.

Learn about iCampus Student Project Grants!

Wednesday, October 30th, 6:00 p.m., NE43-518

Drawing for a free XBOX!

iCampus has awarded \$900,000 to student projects in the past few years. iCampus student projects are ambitious, innovative efforts--designed and carried out by MIT graduate and/or undergraduate students--that demonstrate the use of information technology to enhance MIT education, improve the quality of MIT student life, or make an impact on the world at large. To learn more, see the iCampus web site: <http://icampus.mit.edu>.

iCampus Student Call for Proposals, Winter-Spring 2003
Informational meeting: Wednesday, October 30th, 6:00 p.m., NE43-518
Deadline for submission: November 15, 2002

For proposal criteria and information on submitting proposals, see the iCampus web site: <http://icampus.mit.edu>.

iCampus
The MIT-Microsoft Alliance



Not getting your child all her shots is like leaving her out here alone.

At least 11 shots by two. How sure are you? Questions? Call 1-800-232-2522.

U.S. Department of Health and Human Services

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You can report on campus news too!

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253-1541

MIT Media Lab Drafts Plan for Branch in Australia

By Vicky Hsu
STAFF REPORTER

Despite funding shortages in Cambridge, the MIT Media Laboratory is in the process of branching out to its fourth continent: Australia.

"We are always looking to expand," said Walter R. Bender, Executive Director of the MIT Media Lab. "We want to be in places different than here."

"It is more pull rather than push. We get contacted by interested parties and talks get underway," Bender said of why Australia was chosen as the next possible location for estab-

lishing an affiliated research center. "The interest in Australia is coming from a group that is interested in both engineering and the arts," Bender said. "This is not unheard of, but is an unusual combination that is very attractive to us."

"There is a very strong art industry there, and we can learn a lot," he added. "It is not yet appropriate to release specific names of members in the Australian group, because negotiations are still in the early stages."

Australians eager about new lab

Sentiments about the issue on

the Australian side are similar. "There have been discussions about establishing a media research center in Australia that would be in partnership with the Media Lab," said Colin Griffith, Director of Multimedia and Electronic Services at the New South Wales Department of Information Technology and Management in Australia.

"However, we are not proposing to release a statement to the media for another one to two months, when there would be something to talk about," Griffith said. "It is really premature right now to say more."

Griffith said the Media Lab was approached because "the consortium, which represents people from universities, industries, and the government, is interested in partnerships with top research organizations, and recognizes the MIT Media Lab as one of these organizations."

"We don't fund the lab there, but rather just collaborate with it. If the lab happens, they [the Australians] would build it," Bender said.

Professor Barry Vercoe, of the Music, Mind, and Machine group at

the Media Lab, is one of the individuals engaged in the discussion with the Australians. He could not be reached for comment.

Other labs face hurdles

Currently, the construction on extending the media lab building at MIT has terminated temporarily. "The expansion to the Media Lab here in Cambridge has halted due to funding shortages, but there is no reason why plans of expanding the Media Lab elsewhere should stop," Bender said.

In addition, Media Lab Asia, which officially began operations in early 2002, has its first laboratories set in India.

"Right now, we have research labs at five universities in India, but plan to expand to other Asian countries," said Director of Research of Media Lab Asia Alex P. Pentland.

"Countries that have expressed interest include China, Thailand, Malaysia, and Singapore," Pentland added. "There is only preliminary discussion in expanding to these countries, it is too early to go run-

ning around in all directions."

"The focus of Media Lab Asia is sustainable development, which is distinct from the objectives of the other Media Labs," Pentland said. "[Media Lab Asia] is a completely different animal. We develop technology that have more applicability in rural areas."

"We are in the glorious honeymoon phase," Pentland said of Media Lab Asia. "There are occasional individuals that are unhappy, but I would not call it tension. Startups always have bumps," he added.

"The research program in India is just beginning, and nowhere near completion," Bender said. "It is going well, with no funding problems."

In reference to the slowdown in construction back home, Pentland expressed little concern.

"We are not growing as fast as we were, but we are not near bankruptcy," he said. "We are doing a whole lot better than the stock market."

The Media Lab also has a research partner in Ireland, Media Lab Europe, which opened in 2000.

The Council for the Arts offers

FREE TICKETS FOR MIT STUDENTS ONLY

Boston Theater Works' production of Thornton Wilder's

Our Town

Monday, October 28 at 7:00pm
Tremont Theater
276 Tremont Street

The Cantata Singers presents Haydn's

The Creation

Sunday, November 10 at 3:00pm
Jordan Hall at NEC,
30 Gainsborough Street, Boston

Pre-concert lecture by Craig Smith, Artistic Director of Emmanuel Music at 1:45pm

Pick up one ticket per valid MIT Student ID at

E15-205, MIT Office of the Arts
NO TELEPHONE CALLS or email PLEASE

Organizers Cancel 'Day of Chaos'

Janitors, from Page 1

CO, also took part in the strike.

The deadlocked issue began to show signs of remedy this Monday when Boston Mayor Thomas M. Menino brought in the two parties to resume talks and appointed chief operating officer of Partners HealthCare Thomas Glynn as mediator. Menino mentioned that an agreement was close to being reached at 9:30 p.m. on Wednesday.

A statement issued by the Maintenance Contractors of New England, representing the contracting parties, reads, "This is a settlement that is right for the industry and shows our commitment to being responsible corporate citizens. We are especially pleased that we were able to reach this agreement without the need to lay off any of our part-time employees, many of whom have been with us for more than 20 years."

The custodial workers will return to work this Monday.

Organizers stop 'day of chaos'

The prospective protests for Thursday turned to festivities among janitorial activists.

Russel Davis, a spokesperson for Jobs With Justice, said that the day was "a huge victory, in particular for immigrant population and for people believing they have the ability to fight for justice."

Davis said that the protestors

planned to focus on Boston's financial district. "We planned to protest in the streets and blockade buildings of property owners [who contract the janitors] in a non-violent way," Davis said.

Stephanie W. Wang '04, a representative of the Student Labor Action Program, mentioned in an e-mail that Thursday was planned to be a "day of chaos" but instead will be a "day of celebration." Wang was unavailable for comment.

Oza said that for Thursday, they had planned a multitude of events throughout the day, but believed the slogan "day of chaos" was a title taken from non-MIT-affiliated sources involved with the protest. Oza was not involved with planning for Thursday.

Davis mentioned that Jobs With Justice planned next Tuesday to be a day of student led protests, with one of the focal points being the MIT campus. "MIT, as property owners, did not support the janitors during the strike," he said. "We were pretty disappointed with the MIT administration."

Oza was uncertain about what events at MIT were planned for the coming Tuesday.

Activists credit community

Leaders of the strike thanked the efforts of the community for contributing to the success of the strike.

"Students as usual helped in this victory," Davis said. "They played an important role in our campaign."

Panfil agreed, saying that the turnout "showed that immigrant workers have a lot of support and a significant voice, which is quite an accomplishment."

Oza said that the event was more of a "community thing" and not a student-led activity.

In addition to the community, Panfil credited the large number of political leaders that turned out in support of the janitors, including senators Theodore R. Kennedy (D-Mass.) and John F. Kerry (D-Mass.). "Mayor Menino was also helpful throughout the campaign," she said. "He played a critical role in it."

The joint statement of maintenance contractors also credited Menino for his work on the resolution.

During the strike, a significant number of labor and immigrants' rights groups as well as religious organizations came out in support of the janitors.

Panfil said the resulting agreement was not completely satisfactory. "Like all compromises, we would have liked more," she said, mentioning health coverage for more workers to be one of the key concerns. "This was the effort of a new local [chapter] with new leadership, but this agreement is a good beginning."



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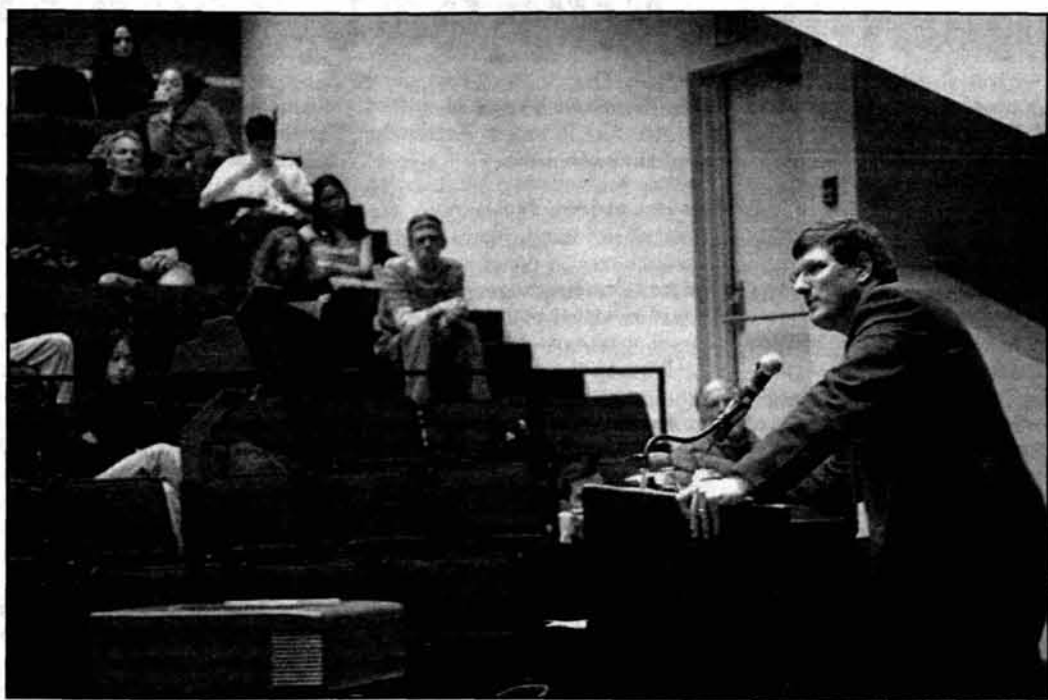
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TIMOTHY SUEN—THE TECH

Scott Ritter, former U.N. weapons inspector, answers questions about his film *In Shifting Sands* and the state of Iraq's nuclear program in 34-101 yesterday evening. The Iraq teach-in, which included a showing of Ritter's documentary as well as talks by humanitarian aid worker George Capaccio and arms control expert Randall Forsberg, was sponsored by the MIT Social Justice Cooperative.

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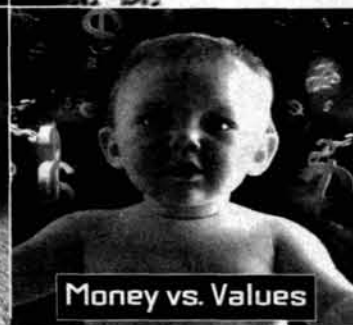
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While Legal, Card Counting Often Stopped by Casinos

Blackjack, from Page 1

players. The back-spotter counts cards without playing and signals teammates when high cards are imminent. The spotter consistently places small bets at the table while secretly counting cards as well and relaying the information to teammates. The "Gorilla," who always

makes large bets, moves from table to table, guided by signals from spotters indicating advantageous positions. Finally, the position requiring the most skill is that of the Big Player, who counts cards, plays at the same time, and is advanced enough to always place high bets. Because of the division of labor,

dealers could not easily spot these card counting teams.

Getting caught

Eventually, members of the blackjack team were betrayed. Out of greed, some team members sold names and faces to the Griffin Agency, which is hired by some casinos to track players who win disproportionately. The Griffin Agency compiles a face book of card counters and prohibits them from betting.

"It gets the MIT freshmen picture book every year," Mezrich said.

"I know of this guy who walked in, was recognized almost immediately, and kicked out before he could play at all," said a veteran blackjack player. "Other times, especially when it's busy, you can play for a couple hours before they pay any attention to you. You get out fast as soon as they see you."

Card counting is entirely legal, but casinos can still get rid of counters because they are taking the casino's money.

Former members talk

A member of the counting team

who did not wish to be identified commented, "It was an interesting part of my life. I was very poor at the time and without a job. I started out just playing and learning the rules, then later joined the MIT blackjack team. I pretended to be a bimbo while spotting so that they would not suspect me and then moved on up in my roles."

However, the game was not just about getting loads of cash and staying in glitzy hotels.

"I stopped four years ago mainly because of the stress of knowing I could get caught. It is scary; they will take illegal measures such as pulling you to the back room ... you don't know what they can do to you there," she said.

Another person, represented by the character Andrew Tay in the book, said, "The team recruited students who had a propensity for playing cards and taught them basic strategy. I was first skeptical when they told me about it, but later I saw what a good opportunity it was."

When asked how people felt about their techniques being revealed, Tay said, "most people

mentioned in the book were comfortable with it. They were willing to talk to Mezrich."

"This experience of seeing a book about me and people I know on *The New York Times*' list - it's been surreal," Tay said.

Kevin Spacey to produce movie

Mezrich has already sold the movie rights to MGM studios. Kevin Spacey is planning to both produce and act in the movie, which could come out as soon as 2004. It will be unique in that many of the MIT students will be portrayed by minority actors, as was the actual case.

"Actually, Kevin Spacey came to me about making a movie. He read the *wired.com* adaptation of the book and became interested," Mezrich said. "The funny thing is filming may take in casinos such as the The Mirage and Caesar's Palace, where the real thing happened."

Several MIT students approached Mezrich after the book signing and expressed interest in acting or being extras in the movie.

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Solution to Crossword

from page 6

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McGovern Building Conflicts with Plans for Railway

By Shan Riku

Concerns about the rail track running through the planned construction site of the new laboratory building for MIT's Department of Brain and Cognitive Science, along with the featureless exterior of the building and other issues caused the City of Cambridge Community Development Department to postpone approval of the new building until another public hearing. MIT stands to lose \$50 million if the building is not erected.

Susumu Tonegawa, the Director of the Picower Center of Learning and Memory, expressed a departmental need for the building. "Our department is trying to be the best in the world [in this field of study] for coming decades," he said. "In order to be the best, one thing we definitely need is the new facility that the neuroscientist and the brain scientist can work close together. Now, our laboratories are relatively scattered. We need to put all neuroscience and brain science researchers under one roof."

The groundbreaking of the building is scheduled for 2003. It will be occupied by laboratories from Department of Brain and Cognitive Sciences and house the McGovern Institute of Brain Research and the Picower Center for Learning and Memory. It is presently projected for completion in 2005.

Funding comes from benefactors

Some part of the budget for this building comes from donations made by Lore Harp and Patrick J. McGovern '59, and the Barbara and Jeffry Picower Foundation. The McGovern committed \$350 million to MIT two years ago. It was the largest gift ever to a university for scientific research.

The Picower Foundation donated \$50 million to establish the Picower Center for Learning and Memory this year. If this building are not approved, the use of those funds could be cancelled.

Railroad plans hinder building

The site for the proposed building is bordered by Main Street, Albany Street, and Vassar Street and located next to the Parsons Laboratory. Because of the lack of space at the site, the building will have no ground floor and will be elevated over the rail track so

trains can pass through the building.

Though trains run rather infrequently on the track, the committee is concerned about the ability to accommodate people in the future with a hindered rail system. The building plan also conflicts with several Cambridge transportation plans already in progress.

"Cambridge Bicycle Committee is planning to build paths through Cambridge alongside the rail tracks," said Lester Barker, a member of the City of Cambridge Planning Board. "There is a study about

... a 'multi-use' path for bikes and pedestrians. They [members of the Cambridge Bicycle Committee] need enough width to build this lane next to the rail track, but the space [under the new MIT building] is too narrow."

Additionally, there is also a plan to install a frequently running light rail transit system on the old rail track, which also conflicts the building.

City finds facade too bland

Another concern of the development department is the facade of the

new building. The committee is concerned about "the exterior, particularly on the ground interfaces on the public side," Barker said. "The exterior of the building is just concrete without any variation. They [some attendees of the meeting] think more windows or skins of the building are needed for the side interfaces and sidewalks."

The planning committee will have the next public hearing on Nov. 12. They will consider the changes the MIT will have made after the first meeting to decide whether to approve the construction.

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MIT Department of Facilities CAMPUS CONSTRUCTION UPDATE

Simmons Hall

A card swiper has been installed at the front entrance of the building as an interim measure until the permanent security system is in place. Temporary ceiling tiles in main lobby have been replaced. The remaining tiles are on site and will be replaced floor-by-floor. Remaining construction on the building continues and noise is being mitigated so disruption to residents will be as minimal as possible.

Vassar St. Utilities

Relocation of the chilled water line for Building 36 is in progress; no disruption in service is anticipated. Excavation for the steam line to Advanced Energy across Main Street continues. The steam piping and backfill at Johnson Athletics is nearing completion. Vassar St. is now one-way heading west from Main St. to Mass. Ave. until June 2003.

Dreyfus Chemistry Building

Repair work on the east concrete façade is nearing completion. Installation of mechanical systems continues. Installation of exterior metal panels to roof penthouse is in progress.

Amherst Alley Steam Repairs

Most of the steam repairs are complete. At two locations on the east and west end of W4, repair work on a condensate return line will be repaired. Four parking spaces will be left open for excavation and mechanical vehicles while work is in progress.

Building 7 ADA accessible entrance

Construction of an ADA accessible entrance to Building 7 is underway. Shrubs and trees on the north side of the 77 Mass. Ave. steps (behind the bus shelter) have been removed to make room for installation of this entrance. Shrubs and trees have also been removed from the south side of the steps so that both sides can be replanted in balance upon completion of the project.

For information on MIT's building program, see <http://web.mit.edu/evolving>. This information provided by the MIT Department of Facilities.

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6.002 Pilot Program To Begin This Spring

By Kathy Lin
STAFF REPORTER

An experimental, case-based version of Circuits and Electronics (6.002) will be offered in the Spring 2003 term in addition to the regular version of 6.002.

The experimental class is part of "a one-year pilot investigation," which is "intended to lay a foundation for transforming the EECS [electrical engineering and computer science] core curriculum — 6.001 [Structure and Interpretation of Computer Programs], 6.002, 6.003 [Signals and Systems], and 6.004 [Computation Structures] — to a new structure," according to the funding proposal for the program.

"The main goal ... is to move to a different style of learning that presents material in case-study form and encourages more interaction through greater emphasis on tutorials," said Professor Harold Abelson, one of two principal investigators for the pilot program.

New teaching method introduced

A case-study-based program would help students because "programming in terms of actual cases in the real world is more interesting, and it's attached to something," said Gerald J. Sussman, a Course VI (EECS) professor who is the other principal investigator for the pilot.

In the spirit of New Pathways, the Harvard Medical School program on which that this pilot is based, the developers of the pilot believe that "education should be the capacity for scientific thinking, rather than just a collection of scientific facts, and that learning should be a process of discovery," according to the proposal.

The new program will feature much smaller and more personal tutorial sessions. "Students will get real access to faculty and interact," Sussman said. Abelson and Sussman are hoping that local alumni and engineers will eventually participate by serving as tutorial instructors.

"The pilot is the beginning of a long-term, ambitious project, which will require careful planning and monitoring by the Department and the Institute," according to the proposal. If this "one-year demonstration and feasibility study" go well, the professors hope the program will continue with "a four- to five-year evolutionary process" towards "full-scale implementation."

Program launches 6.002 pilot

The 21-student 6.002 pilot this spring will be the first class offered by the program. "The experimental

version will cover almost the same material as the regular 6.002," and "the workload and level of difficulty should be the same for the two versions," according to a message distributed to 6.001 and 18.02 students earlier this month. However, instead of recitations, students will meet in small, seven-student tutorials "with a faculty tutor to explore cases" twice a week.

"Unlike the regular 6.002 ... course material will be presented in the context of studying complete applications such as X-10 home signalling, audio amplification, and noise cancellation," according to the message.

Enrollment in the class requires permission from the class instructors. "We've had a lot of people sending us e-mails," said Sussman. "The response has been good."

There are also plans to develop an experimental year-long integrated 6.001 and 6.002 for a select group of next year's incoming freshmen.

Pilot classes test effectiveness

Many questions about the feasibility and practicality of a case-based teaching approach in engineering education, especially how adequately it could address fundamental material, remain.

"That's a reason for the experiment," Sussman said. "We know [a case-based approach] works for medicine, business, and law, but applying it to engineering requires trying to work out all the details. ... [All the Course VI faculty] I've talked to think it's a good thing to at least try."

"The point of trying a single section in this mode is to find out if it's an effective way of teaching the class. If it is, we'll expand it. If it's not, then we'll try something else," said 6.001 professor W. Eric L. Grimson.

Students are similarly receptive to an experimental class. "For 6.002, I think I would definitely get a lot more out of it with more case studies," said Michael J. Ehrenberg '06, who is currently enrolled in 6.001.

Ehrenberg also had his doubts. "The only downside is that I don't know if I would want to be in an experimental class because they usually have lots of problems that need to be worked out, but after that they are definitely a good idea," he said.

The one-year pilot investigation is sponsored by the EECS department and the d'Arbeloff Fund for Excellence in MIT Education. Plans for future funding are under development.

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TEP Awaits Verdict From National Frat

TEP, from Page 1

While MIT is currently subsidizing the cost of empty beds for all fraternities and independent living groups, the fraternity is looking to fill as much empty space as possible for next year.

Having made the decision to allow female boarders, the brothers of TEP began to look for interested women during the normal rush period.

"I just ... went over there and all the guys were really friendly," said Female boarder Olejarczyk. "They're easy-going and don't have a problem with [women living at TEP] at all." Olejarczyk, a freshman, said that she had moved half of her belongings to TEP and had already spent several nights there. Hong, the one new senior boarder,

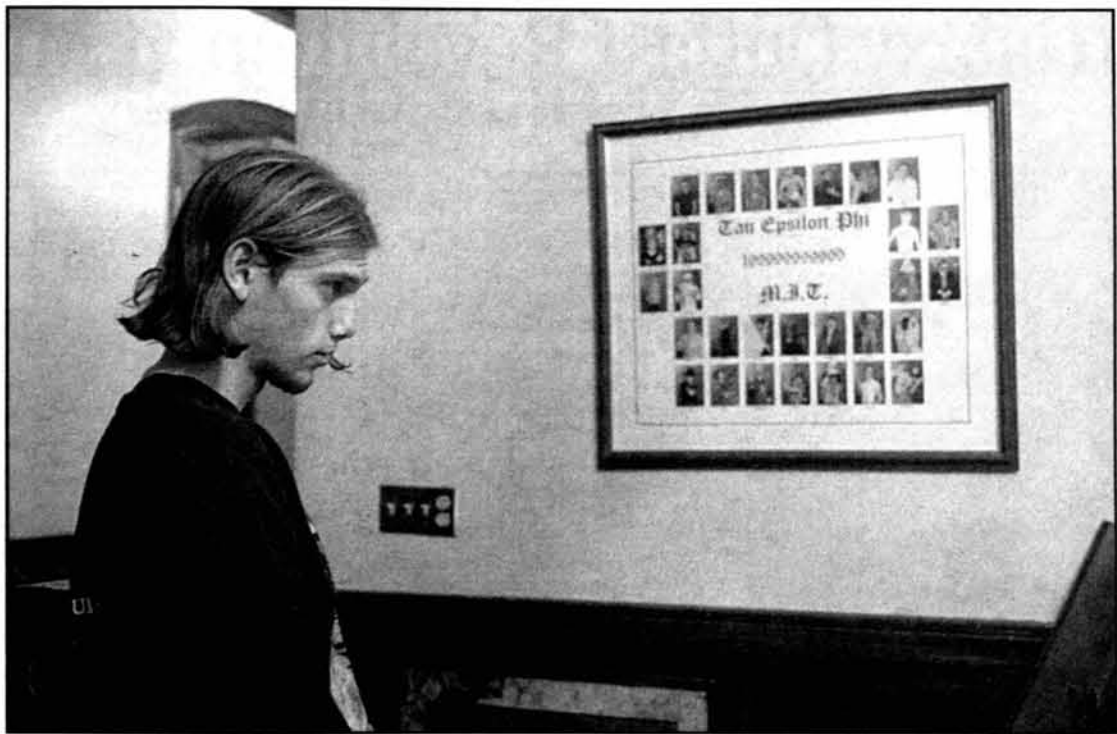
had been living at TEP already and will continue to stay there this school year.

Boarders have different rights

According to Mandel, an important difference between the men and women who will be living at TEP is that the women will not participate in the normal pledge activities or official fraternity business. The women will not pay national fraternity dues, although they will be expected to pay fees for room and board.

"In terms of friendships, we're all in it together," Mandel said.

In general, "We've wanted to have women live in the house for some time," Rolfe said. "We think that the boarders program is a good program and will be valuable for both the brothers and the house."



FREDDY ESPINOZA

Tau Epsilon Phi Chancellor Jason T. Rolfe '03 discusses future housing options for women at TEP, the only nationally male fraternity to seek female "boarders" at MIT.

Alcohol Policy Review Planned

IFC, from Page 1

expand the current policy to develop a general management policy about following general Massachusetts state laws and another as a event guideline for having social functions.

He said he would like to see the risk management committee restructure the alcohol education requirements. "I would like to see more focus on things such as being able to prevent and identify alcohol poisoning, stress management, etc.," Colagiovanni said.

"I would like to see houses more actively use the IFC risk manager as a resource," he said. "I think houses could benefit a lot [from] this, but we would have to establish the trust first between the two. In my opinion, that is why the risk manager is here, but with our houses, he is most often an untapped resource."

Dehoyos said that they are responding carefully to everything that has happened and "the administration has been really supportive of how we are moving on."

Officers comment on the system

Dehoyos said that "the new officers are very involved in the IFC and are extremely qualified [for their positions]."

Sierra said he is "interested in bringing together the continuity of the new rush system." He mentioned that this year has been a "good opportunity for freshmen to live in dorms" while fraternities try to "build a greater sense of community from house to house."

Gottlieb says it is important "to improve communication and links between the community." JudComm is here to help with issues but "has always been under utilized."

Huss said the IFC has pledged "its dedication to make rush even more successful than it was this year."

As the new IFC Recruitment Chair, Huss said he "will be looking into issues such as overnight jaunts, alcohol policy and its enforcement before and during rush, and efforts to lower the cost of rush for individual houses along with the Rush Committee and input from all of the houses in the IFC."

Huss also said he "will work with the administration and all of the member houses to find the best time and structure for Rush next year."

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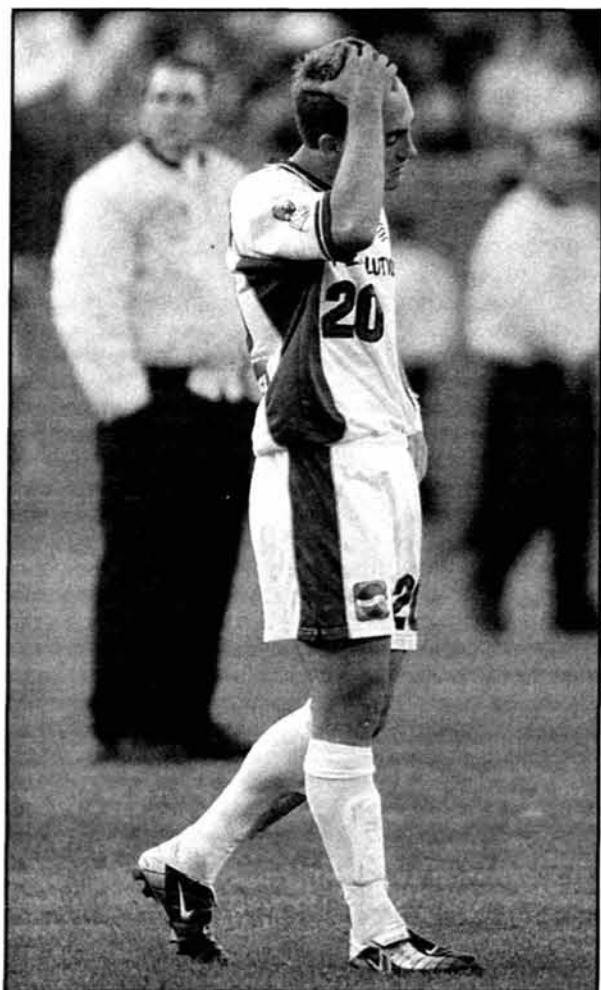
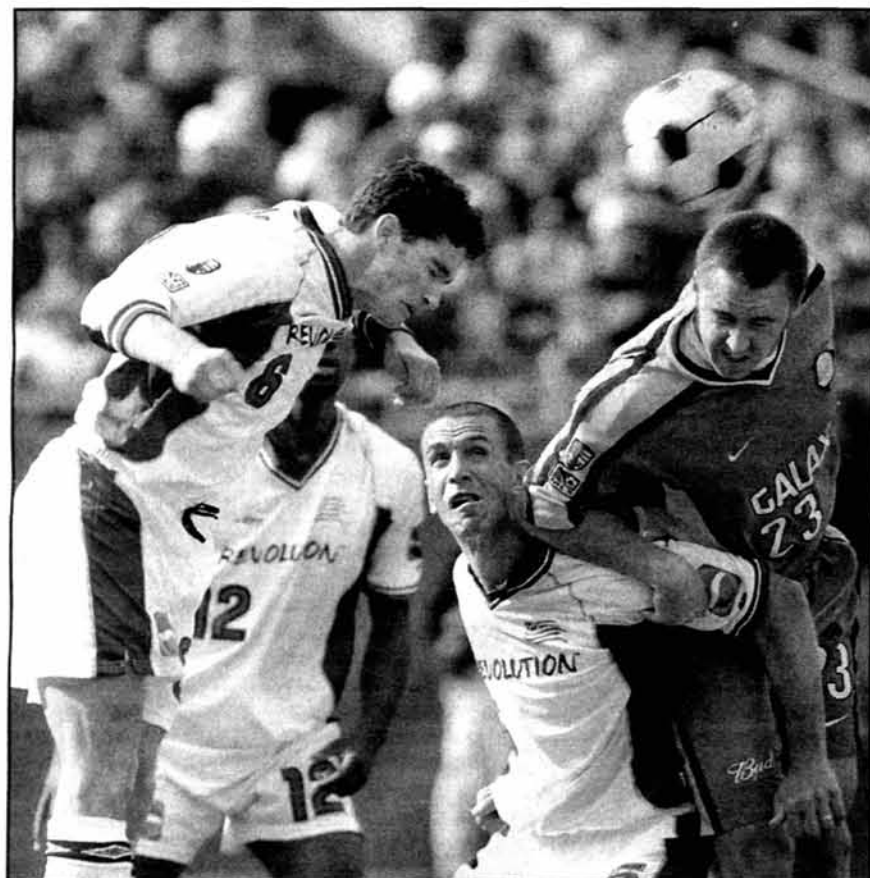
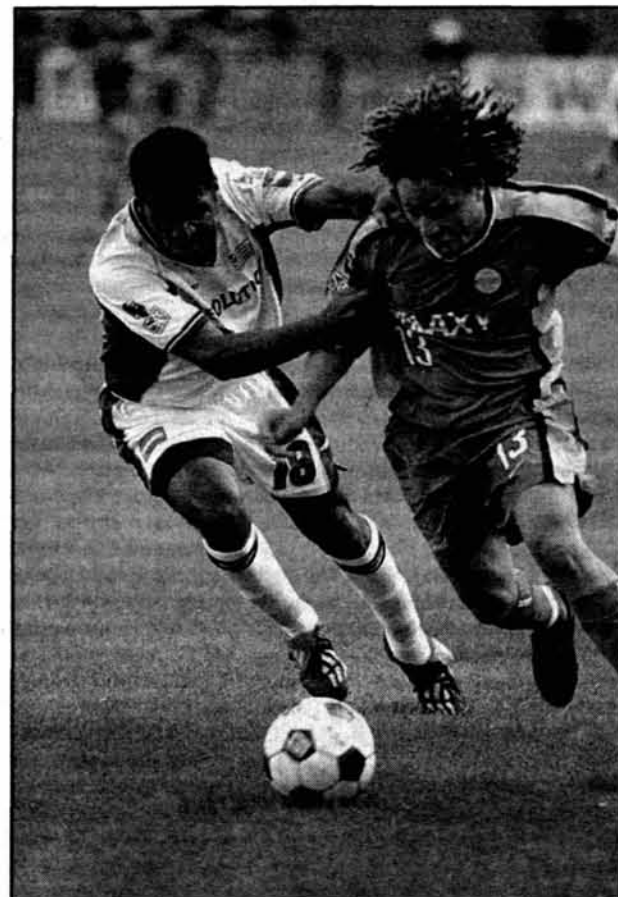
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MIT

Galaxy Outlast Revolution at MLS Cup Championship

L.A. forward Carlos Ruiz scores in the 22nd minute of sudden death overtime to win 1-0



Clockwise from top left:

All eyes are on Revolution goalkeeper Adin Brown after he makes a save. The crowd of 61,316 at Gillette Stadium set a record for MLS Cup attendance on Sunday, Oct. 20.

MLS Cup MVP Carlos Ruiz inverts himself in a bicycle kick against opposing defensemen Joe Franchino (#8) and Rusty Pierce (#3).

Galaxy captain Cobi Jones attacks the goal against Revs defender Carlos Llamasa.

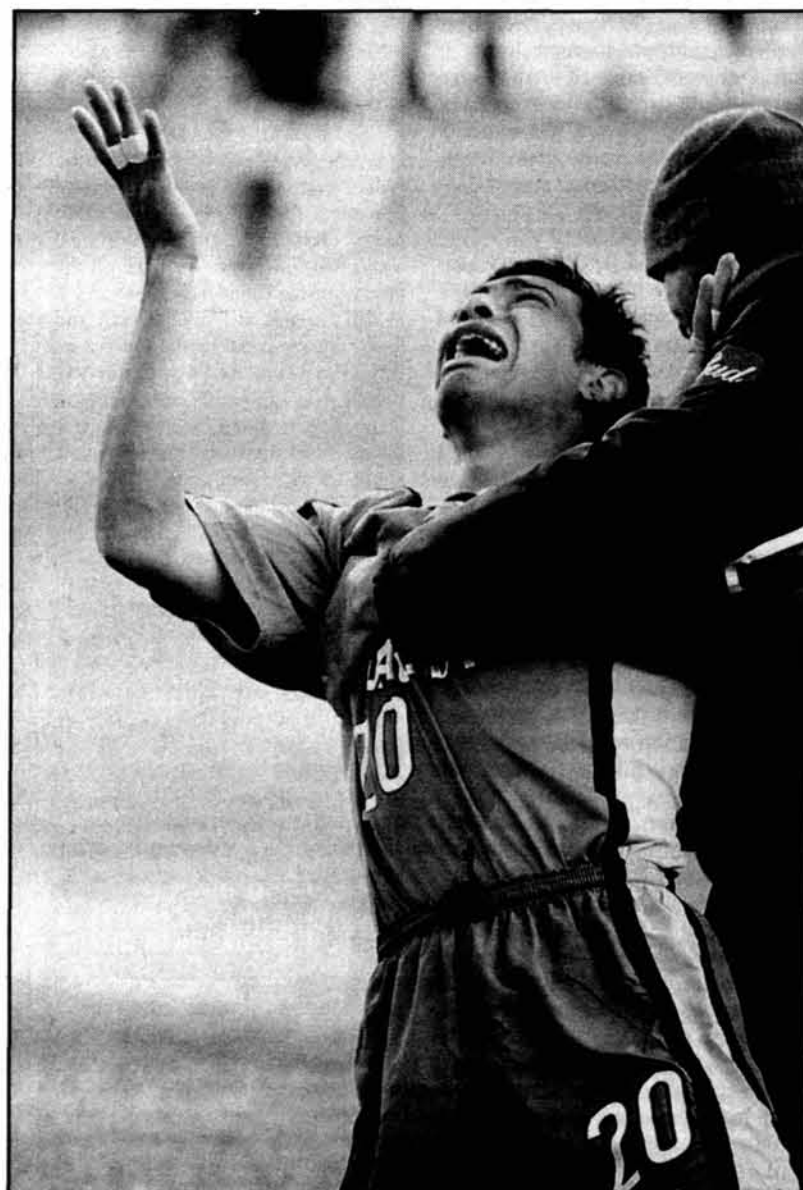
Ruiz comes close to scoring in the first half.

Ruiz cries out after scoring the winning goal in sudden death overtime of the MLS Championship.

Taylor Twellman reacts shows his disappointment with the overtime loss.

Revs Jay Heaps (#6), Brian Kamler (#5), and Galaxy Danny Califf (#23) challenge for a header in the first half of play.

Photography by Ming-Tai Huh and Aaron D. Mihalik



sMITe Breaks Even At Williams College

By Lori Eich

TEAM MEMBER

Last weekend, the Women's Ultimate Frisbee Team (sMITe) went 3-3 at Williams College's annual Purple Valley Tournament.

The first game of the tournament was against the Harvard University Quasars.

The game began with a point block by Lori A. Eich '03, who hucked the disc to Taylor F. Schildgen G for the first point of the game. With the aid of three blocks, one point block, and two goals by Yelena Gorlina '06, sMITe won the game 9-2.

In the second round of play, sMITe took on Middlebury College. Middlebury attempted a zone defense, but it was quickly crushed by sMITe's solid play. Nancy Y. Sun '04 led the team with three goals thrown and one caught, and Eulalia S. Massague '04 shut down Middlebury's offense with five huge blocks. After the game was capped for time, sMITe came out ahead with a score of 8-5.

The team's next opponent was Amherst College. Winning with a final score of 9-0, sMITe spent most of the game autographing discs in the end zone. The game was dominated by Schildgen, who threw one goal,

caught another, and brought down seven blocks. Kathleen L. Dobson '03 was an end zone powerhouse, with three goals caught and one thrown.

After this easy victory, sMITe faced its toughest matchup of the tournament: UMass-Amherst. sMITe started off with a huge point block by Elizabeth S. Kim G, followed with a huck by Angela Tong '05 to Massague for the goal. Unfortunately, the speed and solid throws by UMass for the rest of the game forced a sMITe loss, 13-2.

On the second day of play, sMITe faced Yale University's Ramona. Meryl R. del Rosario '05 contributed three blocks and one point block, and Shuang You '05 threw one goal and caught one more. However, Ramona squeezed out a victory, winning 11-8.

The final game pitted sMITe against the Wellesley Whiptails. Despite Wellesley's excellent use of zone defense in heavy winds, Genevieve G. Ricart '06, Darlene E. Ferranti '06, and Gorlina caught two goals each. But even with four strong blocks by Tong, sMITe lost 9-7.

"Although our throws couldn't stand up to the heavy winds in this game, I think the team improved a lot throughout the tournament," Sun said.

had eight saves to earn the shutout.

Brandeis battle ends in draw

Last Thursday, MIT tied local rival Brandeis University 2-2 in a 110-minute contest that ended in the dark. MIT went out to an 1-0 lead in the 24th minute on a Griffin finish off a Clinton corner. Confidence was high amongst the MIT squad, but the feeling would be fleeting as just two minutes later, Brandeis capitalized on a defensive letdown to tie the game.

Minutes before the end of the half, Griffin would strike again, this time off of a signature super-throw by Monica F. Morrison '04. Despite dominating the play and doubling Brandeis' attempts at goal (22 shots for MIT, 11 for Brandeis), MIT allowed the Judges to score again with twenty-two minutes left in regulation.

The 2-2 draw sent the game to overtime and would not be broken by either team. The draw was a disappointment for MIT, as they had seen many chances to win throughout. Yang had four saves for MIT on the day, while the Brandeis keeper had 10.

MIT stands at 8-5-2 overall and 3-3-1 in the conference. On Saturday, the team, led by departing fourth-year seniors Clinton, Griffin, Yang, Saroglou and Sarah E. Mendelowitz, will host Mt. Holyoke at 1 p.m. at Steinbrenner Stadium. Besides being the last home game of their careers, the match against Mt. Holyoke will determine post-season tournament seeds.

gnaw their way back to victory against the talented Polar Bears from Coast Guard Academy. At the James Early Invitational, Coast Guard finished only 23 points behind MIT without their top runner.

"It'll be a dogfight. We'll need to run a little better if we hope to defend our NEWMAC title," said coach Halston W. Taylor.

Engineers Defeat Smith, Tie with Brandeis Judges

Soccer, from Page 20

conference standings and throughout the match, play went back and forth.

Smith appeared to have the physical and aggressiveness edge while MIT dominated team play and possession. Having played in two physical games earlier in the week, however, MIT was prepared for the hard-hitting match. The Engineers kept their composure, and fortunately their health, despite Smith's bully style.

The thirteenth minute proved an unlucky one for Smith as MIT defender Rebecca E. Clinton '03 served a well-placed corner kick to senior classmate Kelli A. Griffin, who found the ball and sent it sailing towards the net. The Smith keeper made an initial save but Griffin was there for the rebound and sent it again to goal. This time, a Smith defender got a piece of it, though not enough. Meghan E. O'Kane '06 came sliding in to put the ball away past Smith's keeper. The lone goal would be all MIT needed to edge out the Pioneers in front of a large and loud Smith home crowd.

Defenders Clinton, Airis Yonekura '05, and Juthica B. Mal-lela '06 held strong against Smith's attack. Sheila E. Saroglou '03 and Lydia A. Helliwell '05 were outstanding, continuously squashing any progress Smith tried to make through the middle. Keeper Yang

X-C to Defend NEWMAC Title

Cross Country, from Page 20

'06 (27:37), Eric A. Khatchadourian '06 (27:39), and George Hanson '03 (27:42) rounded out the rest of MIT's attack.

MIT will regroup and prepare for the NEWMAC Championships a week from Saturday at Wellesley. The "Runnin' Beavers" will look to



Deanna M. Lentz '06 lines up for a penalty shot in last Friday's women's field hockey game against Smith College. MIT won 2-1, edging out Smith with a second-half goal.

UMD Steals Second Half for Win

Football, from Page 20

UMD was on top of their game as well; they reached the end zone on their first drive, ending the MIT defense's six-quarter shutout streak. Linebacker Schreiber demonstrated his displeasure by blocking the extra point. Deutsch later scored on a 23-yard run, and the extra point by R. Matt Ramirez '06 gave MIT the lead.

After a Corsair three-and-out, Deutsch struck again with a three-yard plunge. In turn, UMD went right down the field, showing the offensive balance that had led them to the top of the division standings, and scored on a touchdown pass. But MIT answered with a long drive of their own, culminating in a 24-yard Ramirez field goal.

The big play was a 33-yard catch down the left sideline by rookie Kurt Josephson. After the defense refused to yield a first down on the ensuing possession, the UMD punter saw the ball sail above his head and out of the end zone, giving MIT two additional points.

A critical sequence at the end of

the second quarter, however, tempered the halftime enthusiasm. MIT had the ball with first-and-goal on the one-yard line. Their two rushing attempts went nowhere, though, and after an incomplete pass, Ramirez' second field goal try was blocked as time expired.

Second half slips away

MIT seemed in total control midway through the third quarter. The Corsairs moved all the way down to the MIT six-yard line, but strong safety David A. Blau '06 sacked UMD's quarterback John Falcone for a 9-yard loss. Defensive captain Brian D. Hoying '03 blocked the ensuing field goal attempt, and MIT marched the ball down the field on the shoulders of Deutsch and fullback Ostlund. The Beavers hit paydirt when receiver Thomas J. Kilpatrick '05 shook loose behind the secondary for a 23-yard touchdown, bringing the score to 26-14.

But the Corsairs weren't intimidated. After a big kickoff return, they cut the lead to 26-21 on a TD rush. On the next play from scrim-

mage, a fumbled screen pass intended for Kilpatrick was picked up and returned for the go-ahead touchdown, and UMD took the lead for good.

MIT saw a chance slip away when Josephson made a leaping catch deep in UMD territory. The ball was ripped out of his grip long after he hit the ground, but after a long conference, the officials shockingly awarded possession to the Corsairs. MIT's defense held, but after a Beaver three-and-out, UMD went on a 14-play, 80-yard drive that bled eight minutes off the clock.

After converting on third down four straight times, UMD slammed the door shut with a 6-yard touchdown run by Shawn Theriault. The final comeback bid was snuffed with an interception as the clock went under one minute to play.

The loss dropped MIT to 3-4 overall, and 1-2 in the New England Football Conference's Boyd Division. MIT's final two games are at powerful Nichols College this Saturday, and at home against perennial thorn Salve Regina on Nov. 2.

Injuries, Hard Feelings Plague Dolphins

Fanatic, from Page 20

for 153 yards on 39 carries, including the game-winning 19-yard touchdown run in overtime. Oakland hopes to rebound after back-to-back losses next week against Kansas City, as San Diego enters their bye week sporting their best record since 1994 when they went to the Super Bowl.

Dolphins' passing game in trouble

When Jay Fiedler went down two weeks ago, Miami (5-2) knew their passing game would suffer. Last week, receiver Oronde Gadsen sprained his wrist, putting the Dolphins in an even tighter spot.

The situation with Gadsen has some history. The team's most productive receiver over the past three years, Gadsen requested a contract extension this year but was denied the salary he requested. Outwardly unhappy about the situation, Gadsen has played with his sights set on free-agency. When he sprained his wrist, Gadsen opted for season-ending surgery over a couple weeks on the bench, as a gesture to the Dolphins organization. Now, thanks to their stingy attitude toward their receivers, Miami is desperate for a

solution to their passing woes.

Enter Cris Carter. When he was let loose by the Vikings in the off-season, Carter shopped around but no one would offer the 8-time pro bowl receiver the contract he was looking for. Now that the Dolphins need a receiver in the worst way, (especially since backup quarterback Ray Lucas needs all the help he can get,) Carter's demands seem less unreasonable. Carter passed his physical last week, and will suit up in Miami's Monday night game against Green Bay on Nov. 4.

In the end, Miami spent more money on receivers than they ever intended, and this still may not be the solution to their problems. This should be a lesson to organizations around the league: treat your own players well or pay the price later.

Riddle of the running backs

Emmitt Smith is now 93 yards from overtaking Walter Payton as the career rushing leader in NFL history. The significance of this feat has rekindled the flame of one of the greatest sports debates: who is the best running-back of all time? Strong arguments can be made for Smith, Payton, and Jim Brown, however my

vote goes to Barry Sanders. Believe it or not, Barry Sanders is one of the most underrated running-backs in history. The only chink in his illustrious armor is that he has never won a Super Bowl. However, I would claim that what makes a running-back great is purely his ability to run, and in that category Sanders is number one.

Barry never had a world-class defense keeping opposing teams deathly afraid of a quick strike like Payton's Bears did. Barry never had a monstrous offensive line and a Hall-of-Fame quarterback like Smith did. What Barry did, he did on his own. Quietly he racked up 15,269 yards, averaging 5.1 yards per carry. That's almost a full yard more per carry than Payton or Smith over their careers, and nearly 3,000 more yards than Jim Brown.

Sanders retired while he was at the peak of his game. Unfortunately. It appears now that he is nearly forgotten. He rushed for over 1,000 yards every year he played, and had the best year in history rushing for 2,053 yards on 6.1 yards per-carry. If you doubt for a second that Barry Sanders is the greatest, watch any game he played. No running back was more feared, no running back was better.

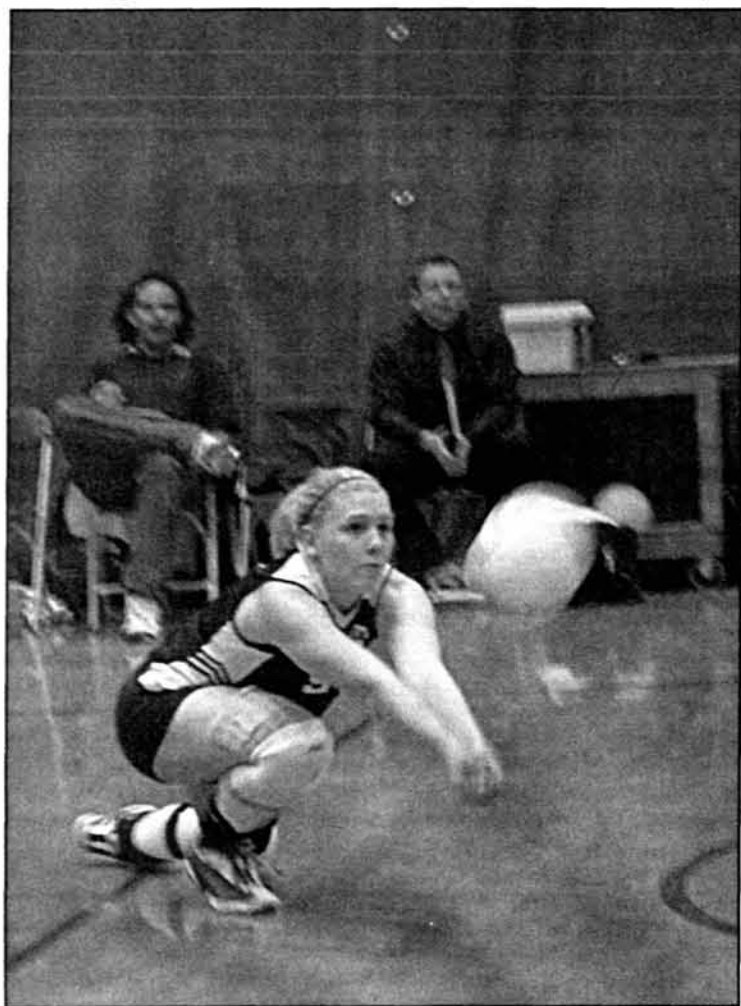
You Shall Banish Ignorance

Let there be none who may go without hearing of the great victories in this world.

<sports@the-tech.mit.edu>

SPORTS

Engineers Dominate, Martens Takes Honors



DANIEL BERSAK—THE TECH

Joy N. Hart '06 digs a hard-driven Coast Guard Academy attack during Tuesday's 3-1 volleyball victory. The team is now 7-0 in the conference and 26-2 overall.

By Paul Dill
TEAM COACH

The women's varsity volleyball team continued their winning ways with yet another undefeated week as they went 3-0, beating Caltech, Plymouth State College, and the U.S. Coast Guard Academy.

Over the weekend, MIT hosted a tri-match with Caltech and Plymouth State. In the first match, the Engineers took on their west coast rivals and made short work of them. The entire roster saw time in the rout as MIT took the match 3-0 (30-15, 30-10, 30-14). Kelly A. Martens '03, Nydia M. Clayton '04 and Joy N. Hart '06 each contributed eight kills to the effort, while Jenny C. Alexander '06 did double duty in the match, playing one game as a hitter, and one as the setter. Her hitting percentage was a whopping .800, and she dished out nine assists in the game she set.

In their second match, MIT faced a Plymouth State team that took them to five games in their last meeting at the Bates College Invitational. The Engineers showed them no mercy this time around, winning the match 3-0 (30-19, 30-27, 30-22). Martens again led the offense with 11 kills, while Arlis A. Reynolds '06 added six kills and four aces to the win. Caroline D. Jordan '06 also had a big day, with a hitting percentage of .625.

With her performance over the weekend and an impressive showing against Smith College earlier in the

week, which saw her surpass the 1,500-kill mark, Martens earned the NEWMAC Conference Player of the Week Award. This is the second week in a row that an MIT player has earned this recognition, as Austin Zimmerman '06 earned the award the week before.

On Tuesday night, MIT faced a very strong Coast Guard Academy squad. The Engineers knew the importance of this match going into it. A win would lock up at least a second place finish in the conference. Coast Guard also knew the importance and pushed the Engineers hard throughout the match.

The first game went back and forth until MIT finally pulled away in the end to take it 30-23. The second game saw Coast Guard push even harder; they took the game 30-21. With the match tied at one game apiece, it looked as though the Engineers were in trouble.

However, with great poise, the Engineers slowly took control of the match behind the setting of Zimmerman, who dished out 52 assists for the match. MIT took the third and fourth games 30-22 and 30-24 to win the match 3-1. The attack was very well balanced. Martens had 15 kills, Clayton and Hart had 14 each, and Reynolds added 11.

The Engineers are currently 26-2 on the season with a conference record of 7-0. Currently ranked #2 in the New England region and in the top 30 nationally, the Engineers will play their next home match on Saturday, Nov. 2 in DuPont Gymnasium.

Corsairs Squelch Upset Bid

By Christopher P. Anderson
TEAM MEMBER

With their offense out of the doldrums and their defense on fire, the MIT football team seemed on their way to a monumental upset with a 26-14 third-quarter lead over the undefeated UMass-Dartmouth Corsairs. But the 12-point lead evaporated in a period of 15 seconds, and the Beavers ended up chewing on a bitter 36-26 loss.

Quarterback Alex T. Karnal '03, completing 12 of 20 passes for 211 yards, and tailback Philip M. Deutsch '04, with 27 carries for 128 yards, each had a fantastic afternoon, and the defense put forth a superb effort, but the clock just didn't move fast enough for the Beavers.

The emergence of the ground game (176 yards on the day) was a major boost for the Beaver offense. Deutsch and David J. Ostlund '04 found room to run behind offensive linemen Matt J. Krueger '05, Justin M. Nelson '04, Benjamin F. Povlich '05, Spencer M. Cross '05 and Keith G. Reed '04. MIT held a four-minute edge in time of possession, keeping UMD's potent offense off the field for a good part of the contest.

The Beaver defense played an inspired, hard-nosed game for the second week in a row. Inside linebacker Jeremy R. Arnold '03 led the way with 11 tackles, joined by Brent M. Schreiber '03 (7), Corey D. Carter '03 (10), and Dan Relihan '04 (8). Conference sack leader Kevin Yurkevich '06 notched two of the team's four tackles for loss, but left the game in the third quarter with an injury.

Beaver offense wakes up

Normally a slow-starting team, the Beavers tallied an unprecedented 19 points in the first half. But

Lyons Attack Quickly, MIT Can't Answer

By Melissa Hart
TEAM MEMBER

The MIT women's soccer team picked up a win, a loss, and a draw in a tough week of conference play.

The Engineers, currently 8-5-2, have one regular season game remaining.

This past Tuesday, on a brisk autumn afternoon, the team travelled to face the Wheaton College Lyons in a conference contest. The opportunistic Lyons were quick to pounce and converted three of their first four shots into goals, putting MIT in a 0-3 deficit with 80 minutes left to play.

Wheaton's fourth goal shortly followed, when their All-American forward and New England's leading scorer, Tracy Prihoda, capitalized on a through-ball.

Despite their early firepower, Wheaton's fourth goal would be their last, as MIT went on to play a solid 70 minutes, holding the Lyons' notoriously relentless offense scoreless for the remainder of the match.

The Engineers took nine shots in the contest, and tested the Wheaton keepers six times. Despite these shots, MIT could not get on the scoreboard. Wheaton had fourteen shots in the match and MIT's keeper Connie Yang '03 made nine saves before she was relieved by Sarah Barber, a CMI exchange student.

Though solid in the second half, MIT was unable to meet the offensive effort put forth by the #1-in-New England and #4-nationally ranked Lyons. The Engineers had to swallow the shutout for their fifth loss on the season.

Defense key in win over Smith

Last Saturday, MIT traveled to Smith College to take on another feisty and physical conference rival. The game was an important one for

The Football Fanatic

By O.B. Usmen
COLUMNIST

The Rams are back. After upsetting Oakland (4-2) last week for their first win, St. Louis (2-5) got their sea legs back and overwhelmed Seattle 37-20. Marshall Faulk carried the ball 32 times for 183 yards and scored four touchdowns, effectively beating the Seahawks by himself. As long as the Rams can keep Faulk involved, they could turn the season around.

In what could very well be a preview of the NFC Championship Game, Philadelphia (4-2) held off the Buccaneers (5-2) 20-10. The Tampa Bay defense held Donovan McNabb to 127

yards passing, but couldn't contain Duce Staley who rushed for 152 yards. Buccaneers linebacker Derrick Brooks scored his fourth touchdown of the season on a fumble return, making him the highest scorer on the team after the kicker.

New Orleans (6-1) scored 22 points in the fourth quarter, to come from behind and beat San Francisco (4-2) 35-27. Aaron Brooks threw for three touchdowns and ran in another one to help the Saints to the best record in the NFC.

San Diego (6-1) continues to surprise, with an overtime victory over the high-powered Raiders (4-2) 27-21 this week. Rich Gannon passed for over 330 yards for the fifth straight game but couldn't overcome the dominance of LaDainian Tomlinson, who rushed

Fanatic, Page 19

Men's Cross Country Places Second to Jumbos

By Sergio M. Navarro
TEAM MEMBER

The men's cross country team finished second out of 27 schools in last Saturday's James Early Invitational meet at Westfield State. The Jumbos of Tufts University outlasted MIT in the disappointing race, as they captured the meet title by a score of 72 to MIT's 85. The loss of freshman star Steven K. Maltas '06 to a back injury proved to be a key factor in

the MIT defeat.

In the perfect weather, Captain Sean P. Nolan '03 led the way for the Beavers, claiming second place with a time of 25:16 for the five-mile course. Benjamin A. Schmeckpeper '05 trailed close behind his teammate to clock in at 25:21 and finish in fourth place. Trailing early in first mile of the race, the dynamic duo could not close the gap between them and the race winner from Massachusetts Maritime Academy.

The gap between MIT's second and third runners continued to

plague the team, as almost a minute separated Schmeckpeper and Brian C. Anderson '04. Anderson, known for his blazing finishes, was still able to claim 20th for the Beavers with a time of 26:21.

The pack of Albert S. Liu '03 (26:40), Carlos A. Renjifo '04 (26:45), and Craig B. Wildman '03 (27:02) finished the scoring for MIT by capturing 28th, 31st, and 40th places, respectively. Fivos G. Constantinou '06 (27:19), David S. Gray

Cross Country, Page 19

UPCOMING HOME EVENTS

Saturday, Oct. 26

Women's Soccer vs. Mt. Holyoke — Steinbrenner Stadium 1 p.m.

Men's and Women's Fencing, Alumni Meet — DuPont, 1 p.m.

Pistol vs. U.S. Coast Guard Academy — DuPont



JINYANG LI—THE TECH

Cory Y. Mclean '04 passes a series of Lasell defenders to score in the first half of the men's soccer game on Tuesday. Lasell College scored with five seconds left in regulation to tie the game 1-1.